

Kindergarten

Knowledge 4 | Teacher Guide

**Plants: How Do They Grow?** 

Kindergarten

Knowledge 4

# **Plants:** How Do They Grow?

**Teacher Guide** 

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#### Application (20 min.)

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- Domain-Related Trade Book or Student Choice

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# Kindergarten | Knowledge 4

# Introduction

This introduction includes the necessary background information to be used in teaching the *Plants: How Do They Grow?* domain. The Teacher Guide for *Plants: How Do They Grow?* contains eleven daily lessons, each of which is composed of two distinct parts, so that the lesson may be divided into smaller chunks of time and presented at different intervals throughout the day. Each entire lesson will require a total of 60 minutes.

This domain includes a Pausing Point following Lesson 4, after plant parts and the life cycle are introduced. At the end of the domain, a Domain Review, Domain Assessment, and Culminating Activities are included to allow time to review, reinforce, assess, and remediate content knowledge. You should spend no more than seventeen days total on this domain.

# **INSTRUCTIONAL MATERIALS**

Along with this Teacher Guide, you will need:

- Flip Book for Plants
- · Activity Book for Plants
- Image Cards for Plants

Additional resources that you may wish to integrate into your classroom instruction are:

- Trade Book Guide for *The Tiny Seed* by Eric Carle
- Read-Aloud Videos for Plants

All domain components materials can also be found on the program's digital components site.

# WHY PLANTS ARE IMPORTANT

There are millions of living things on Earth. Scientists classify these living things into groups called kingdoms. Plants make up one kingdom in this classification system. Over 350,000 species of highly diverse plants are found on almost every part of the earth. By listening to the read-alouds in this domain, students will acquire a fundamental understanding of the parts of plants and how they grow. They will learn what plants need in order to stay alive and will be introduced to the concepts of the life cycle of plants, pollination, and photosynthesis. This basic knowledge about plants will lay

the foundation for a broader understanding of ecology and the interdependence of all living things, which are topics that will be addressed in other Kindergarten domains (*Farms* and *Taking Care of the Earth*), as well as in subsequent grades.

This unit also provides opportunities for students to build content knowledge and draw connections to social studies and science subject areas but it does not explicitly teach the Texas Essential Knowledge and Skills standards for Social Studies and Science. At times throughout the unit, you may wish to build on class discussions to support students in making cross-curricular connections to the strands of Economics from the social studies discipline and Organisms and Environments from the science discipline.

# CORE CONTENT OBJECTIVES FOR PLANTS

#### Students will:

- Identify plants as living things
- Explain that different kinds of plants grow in different environments
- Identify what plants need to live and grow: food, water, air, and light
- Identify the root, stem, branch, leaf, flower, fruit, and seed of a plant
- Explain basic facts about the root, stem, leaf, and seed of a plant
- Explain the basic life cycle of plants
- Explain that some plants produce fruit to hold seeds
- Compare and contrast the fruits and seeds of different plants
- Identify the parts of specific plants that are eaten by people
- Identify the petals on a flower
- Describe how bees collect nectar and pollen
- Describe how bees make and use honey
- Describe the important role bees play in plant pollination
- Demonstrate familiarity with the tall tale "Johnny Appleseed"
- Identify deciduous trees and recall basic facts about them
- Identify evergreen trees and recall basic facts about them

- Compare and contrast deciduous and evergreen trees
- Identify things that plants provide to people
- Describe the life and scientific achievements of George Washington Carver

# CORE VOCABULARY FOR PLANTS

The following list contains all of the core vocabulary words in *Plants* in the forms in which they appear in the read-alouds or, in some instances, in the "Introducing the Read-Aloud" section at the beginning of the lesson. Bold-faced words in the list have an associated Word Work activity. The inclusion of the words on this list does not mean that students are immediately expected to be able to use all of these words on their own. However, through repeated exposure throughout the lessons, they should acquire a good understanding of most of these words and begin to use some of them in conversation.

Lesson 1 plants soil	Lesson 5 honey nectar petals pollen pollination	Lesson 9 cones conifers evergreen (deciduous) needles
Lesson 2 leaves roots seeds stems survival	Lesson 6 core produce scrumptious	Lesson 10 bouquet medicines oxygen provide
Lesson 3 germinate mature sapling seedlings	Lesson 7 eventually hero orchards	Lesson 11 botanist botany crops
Lesson 4 budge gigantic stew	Lesson 8 bare deciduous dormant habitat sheds	

# WRITING

In this domain, students will focus on oral communication, with the teacher acting as scribe. With teacher assistance and the use of graphic organizers, students will compare and contrast different types of plants, seeds, and how different plant parts are used by people. They will also draw pictures to communicate understanding of plant parts and the life cycle of plants.

The following activities may be added to students' writing portfolios to showcase student writing within and across domains:

- Drawing the Life Cycle (Lessons 3)
- Drawing the Read-Aloud (Lessons 8, 9)
- any additional writing completed during the Pausing Point, Domain Review, or Culminating Activities

# 1

# **PLANTS**

# Introduction to Plants

### PRIMARY FOCUS OF LESSON

# **Speaking and Listening**

Using images, students will differentiate between living and nonliving things.

#### TEKS K.1.A

# Reading

Students will use pictures to monitor their comprehension of a text, ask questions while they are reading to deepen their understanding, and then identify the basic needs of plants.

#### TEKS K.5.B; TEKS K.5.F; TEKS K.5.I; TEKS K.6.C

# Language

Students will demonstrate an understanding of the Tier 2 word soil.

# TEKS K.6.F

Students will demonstrate an understanding of the multiple meaning word plant.

#### TEKS K.6.F

### FORMATIVE ASSESSMENT

### **Drawing Activity**

What Do Plants Need? Students will draw one of the things plants need to survive (food, water, or light).

#### TEKS K.6.F

**TEKS K.1.A** Listen actively and ask questions to understand information and answer questions using multi-word responses; **TEKS K.5.B** Generate questions about a text before, during, and after reading to deepen understanding and gain information with adult assistance; **TEKS K.5.I** Make inferences and use evidence to support understanding with adult assistance; **TEKS K.5.I** Monitor comprehension and make adjustments such as re-reading, using background knowledge, checking for visual cues, and asking questions when understanding breaks down with adult assistance; **TEKS K.6.C** Use text evidence to support an appropriate response; **TEKS K.6.F** Respond using newly acquired vocabulary as appropriate.

# LESSON AT A GLANCE

	Grouping	Time	Materials	
Introducing the Read-Aloud				
Domain Introduction/ Core Connections	Whole Group	10 min.	☐ Flip Book: 1A-1	
Read-Aloud				
Purpose for Listening	Whole Group	30 min.	☐ Flip Book: 1A-1–1A-8	
"Introduction to Plants"				
Comprehension Questions				
Word Work: Soil				
This is	s a good opportunit	y to take	a break.	
Application				
Plants and Their Environments	Whole Group	20 min.	☐ pictures of plants	
Multiple Meaning Word Activity			☐ Flip Book: 1A-3–1A-8 (optional)	
manapie meaning violations			<ul><li>□ Poster 1M: Plants (Flip Book)</li><li>□ paper</li></ul>	
			☐ drawing tools	
Take-Home Material				
Family Letter			☐ Activity Page 1.1	

# **ADVANCE PREPARATION**

# **Application**

• Prepare pictures of five to ten plants in different environments (e.g., a cactus in a desert or a palm tree on a beach). Alternatively, you may use Flip Book images 1A-3 through 1A-8.

# **Universal Access**

• Bring in different plants for students to look at, smell, and touch during the lesson.

# CORE VOCABULARY

**plants, n.** living things that have leaves and roots and make their own food Example: The plants in our classroom need to be watered twice a week.

Variation(s): plant

**soil, n.** the top layer of dirt where seeds or plants can grow Example: I used a shovel to dig into the soil to plant my flower.

Variation(s): soils

Vocabulary Chart for "Introduction to Plants"					
Туре	Tier 3 Domain-Specific Words	Tier 2 General Academic Words	Tier 1 Everyday Speech Words		
Vocabulary					
Multiple Meaning		soil	plants		
Sayings and Phrases	different kinds from the to the				

# **Lesson 1: Introduction to Plants**

# Introducing the Read-Aloud



Speaking and Listening: Using images, students will differentiate between living and nonliving things.

### TEKS K.1.A

### DOMAIN INTRODUCTION/CORE CONNECTIONS

- Tell students they will be learning about plants for the next few weeks.
- Explain that plants are a type of living thing they see all around them.

# **Show image 1A-1: Living things**

- Explain to students that all living things have certain similarities, or things in common:
  - · All living things need food, water, and air. People and animals are living things because they all need food, water, and air. In the same way, plants like trees and flowers are also living things that need food, water, and air.
  - Living things also reproduce, or make babies that look like themselves. Since plants are living things, they also reproduce to make other plants that look like themselves.
- Help students name the living things in the image.
- Be sure to reinforce the fact that nonliving things, such as rocks or buildings, do not reproduce or have babies, and they do not need food, water, or air because they are not alive.
- Explain to students that you are going to read a list of things—some that are living and some that are nonliving. If what you name is alive, students should say, "\_\_\_\_\_ is living." If what you name is not alive, students should say, "\_\_\_\_\_ is nonliving."
  - dog (A dog is living.)
  - tree (A tree is living.)
  - rock (A rock is nonliving.)

# Flip Book 1A-1



# Support

If students answer incorrectly, provide feedback and correct their responses by helping them use and apply the criteria for living things described above.

# Challenge

If students answer correctly, have them explain why their answers are correct by using and applying the criteria for living things described above.



TEKS K.1.A Listen actively and ask questions to understand information and answer questions using multi-word responses.

- cat (A cat is living.)
- chalkboard (A chalkboard is nonliving.)
- crayon (A crayon is nonliving.)
- person (A person is living.)
- table (A table is nonliving.)
- flower (A flower is living.)

# Read-Aloud



**Reading:** Students will use pictures to monitor their comprehension of a text, will ask themselves questions while they are reading to deepen their understanding, and then will identify the basic needs of plants.

TEKS K.5.B; TEKS K.5.F; TEKS K.5.I; TEKS K.6.C

Language: Students will demonstrate an understanding of the Tier 2 word soil.

TEKS K.6.F

### PURPOSE FOR LISTENING

- Tell students to ask questions while they read to make sure they understand
   the text. Teks K.5.B
  - $\bullet\,$  Tell students that another way to understand the text is to look at the
- pictures, which offer additional information. TEKS K.5.1
  - Tell students to listen to find out what plants need to live.

**TEKS K.5.B** Generate questions about a text before, during, and after reading to deepen understanding and gain information with adult assistance; **TEKS K.5.F** Make inferences and use evidence to support understanding with adult assistance; **TEKS K.5.I** Monitor comprehension and make adjustments such as re-reading, using background knowledge, checking for visual cues, and asking questions when understanding breaks down with adult assistance; **TEKS K.6.C** Use text evidence to support an appropriate response; **TEKS K.6.F** Respond using newly acquired vocabulary as appropriate.

# Support

Explain that the word plants can have other meanings. The word plants also means puts seeds into the ground.

# "INTRODUCTION TO PLANTS" (15 MIN.)

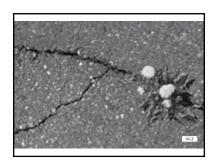
# TEKS K.5.B; TEKS K.5.I



# **Show image 1A-1: Living things** What do you see in this picture?

There are many different kinds of people, animals, and **plants** that live in our world. The word plants means living things that have leaves and roots and make their own food. You probably recognize many of the living things in this picture. In some ways, people, animals, and plants are alike—they

are all alive. They need food, water, and air to grow and stay alive. But plants, people, and animals are different in many other ways. How do you think plants and animals are different? Unlike animals and people, plants do not make sounds, and they cannot move from one place to another.



# **Show image 1A-2: Dandelion in the sidewalk**

Plants need four basic things in order to live and grow: food, water, air, and light. If a plant has these things, then it can survive—even in a little crack in the sidewalk.

The yellow flowering plant in this picture is called a dandelion. A few weeks ago, a tiny dandelion seed floated through the air and

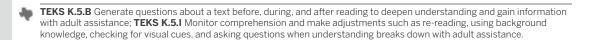
landed in this crack, where there was just enough **soil** for it to begin to grow. Soil is the top layer of dirt where plants can grow. This dandelion gets plenty of sun here in the sidewalk, and it also gets plenty of air, water, and nutrients. Nutrients are like the vitamins you get from your food.



#### **Show image 1A-3: Hardwood forest**

This shady forest is home to many different types of plants, from the tallest tree to the tiniest flower. A forest is a large area of land where many trees grow close together.

Animals that live in the forest depend on these plants for food and for their homes. This forest is just one environment—or place where living things live—of many on this earth.







# **Show image 1A-4: Pine forest**

This is another type of forest. There are some major differences between the colors and shapes of the leaves on these trees and the leaves on the trees in the last picture. In a later lesson, you will learn about two different types of trees.



# Show image 1A-5: Desert cactus

This environment looks very different from the forests we saw in the last images. All plants need food, water, air, and light. But, not every place in the world has exactly the same amount of food, water, air, or light. This is a desert, where it is hot and dry all year round. Plants that grow here, such as this cactus, have adapted to a life in sandy soil

with very little rainfall beneath the blazing hot sun. That tough little dandelion and the trees you saw earlier would wither and die if you tried to plant them here. And the cactus in this desert would not be able to live in either the sidewalk crack or the forest! Different types of plants grow in different environments or places.



## **Show image 1A-6: Underwater plants**

This picture shows an underwater environment. Fish may be the first things that come to mind when you think about underwater life, but there are plants down there, too. Underwater plants need the same things other plants need, including food, water, air, and light. What questions do you

have about underwater plants? How can the image help you answer these questions? Have you ever seen underwater plants? TEKS K.5.B; TEKS K.5.I



# **Show image 1A-7: City park**

This environment is not a forest, not a desert, and definitely not underwater. This is a city park, made when some people gathered seeds and planted them in the ground. People plant grass seeds on lawns and in parks so there are nice places to play and relax. People plant flowers and trees to make the world a prettier place.

#### TEKS K.5.B Generate questions about a text before, during, and after reading to deepen understanding and gain information with adult assistance; TEKS K.5.I Monitor comprehension and make adjustments such as re-reading, using background knowledge, checking for visual cues, and asking questions when understanding breaks down with adult assistance.

Support

Explain that when you plant something, you place seeds or plants in the ground to grow.



# Show image 1A-8: House plant

Some plants can be grown indoors. Maybe you even have one in your classroom. If so, someone needs to water it from time to time so it stays healthy and green.

All plants have four basic needs—food, water, air, and light. But not all plants can grow in all the same places on Earth. A dandelion cannot

grow in the desert, and a corn plant cannot grow underwater. Over the next several days, you will learn all about different types of plants and plant parts, and you will understand why plants are so important to animals and people.



# Check for Understanding

**Recall:** Name some different places where plants live. (Some places where plants can live include the desert, underwater, and in parks.)

Flip Book 1A-1, 1A-5, 1A-8

Challenge

Why do you think not all

plants can grow in all the

same places on Earth?



# COMPREHENSION QUESTIONS (10 MIN.)

TEKS K.5.B; TEKS K.5.I

# Show image 1A-5: Desert cactus Show image 1A-8: House plant

- 1. **Inferential** How are these plants the same and how are they different? (Both plants need food, water, air, and light to survive. The cactus and the house plant live in different places or environments.)
- 2. **Inferential** What did you learn about plants in this read-aloud that makes you think plants are living things? (*Plants need food, water, air, and light to live, just like people.*)
  - Are plants living or nonliving? (Plants are living things.)
- 3. **Inferential** What do you think would happen if plants didn't have food, water, air, and light? (If plants did not have food, water, air, and light, they would not be able to stay alive.)

## Support

If students have difficulty responding to questions, reread pertinent lines of the read-aloud and/or refer to specific images.

**TEKS K.5.B** Generate questions about a text before, during, and after reading to deepen understanding and gain information with adult assistance; **TEKS K.5.I** Monitor comprehension and make adjustments such as re-reading, using background knowledge, checking for visual cues, and asking questions when understanding breaks down with adult assistance.

# **Show image 1A-1: Living things**

- 4. **Evaluative** *Think Pair Share:* Name one way plants and animals are the same and one way that they are different. (*Answers may vary, but may include that both plants and animals need food, water, and air to live, and both reproduce; animals can move from one place to another, but plants cannot.)*
- 5. What questions do you still have about the differences between living things? How could you use the images to help answer your questions? (Encourage students to ask questions, and provide images to help answer their questions.)

# WORD WORK: SOIL (5 MIN.)

- 1. In the read-aloud you heard, "A few weeks ago, a tiny dandelion seed floated through the air and landed in this crack, where there was just enough soil for it to begin to grow."
- 2. Say the word soil with me.
- 3. Soil is the top layer of dirt where seeds or plants can grow.
- 4. The plant pushed its way through the soil as it grew.
- 5. What kinds of plants would you plant in soil? [Ask two or three students. If necessary, guide and/or rephrase the students' responses: "I would plant \_\_\_\_\_ in the soil."]
- 6. What's the word we've been talking about?

**Use a Sharing activity for follow-up.** Share with the class what you might plant in the soil. Be sure to begin your responses with, "I would plant \_\_ in the soil because . . ."



# Speaking and Listening

**Listening Actively** 

#### **Beginning**

Ask students simple yes/no questions (e.g., "Are plants and animals both living things?").

### Intermediate

Provide students with a specific sentence frame (e.g., "Plants and animals are the same because . . .").

# Advanced/Advanced High

Encourage students to use content-related words in complete sentences (e.g., "Plants and animals are the same because they are both living things that need food, water, and air to live.").

ELPS 2.G; ELPS 2.I



Speaking and Listening

**Exchanging Information** and Ideas

## **Beginning**

Ask students yes/no questions about plants and their environments. Encourage them to ask their own questions about plants and their environments.

#### Intermediate

**Encourage students** to build on what the previous student has said about plants and their environments.

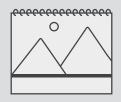
# Advanced/Advanced High

Challenge students to say something more about what the previous student has said about plants and their environments.

> ELPS 1.E; ELPS 2.C; ELPS 2.D; ELPS 2.G;

ELPS 3.G

Flip Book Poster 1M: Plants



# **Lesson 1: Introduction to Plants**

# Application



Language: Students will demonstrate an understanding of the multiple meaning word plant.



### TEKS K.6.F

# PLANTS AND THEIR ENVIRONMENTS (10 MIN.)

 Show students the pictures of plants in different environments you prepared in advance.



# Check for Understanding

**Recall:** How do you know plants are living things? (We know plants are living things because they need food, water, air, and light in order to live.)

- Remind students that environment means a place where living things live. Explain that there are many different kinds of environments on this earth,
- Ask students why the plants look different. (Answers may vary, but may include that the plants look different because they live in different places.)
- Encourage students to think about why these environments may produce different kinds of plants. Also, make a connection between different kinds of habitats.

# MULTIPLE MEANING WORD ACTIVITY (10 MIN.)

# **Sentence in Context: Plants Show Poster 1M: Plants**

 Remind students that in the read-aloud they heard, "There are many different kinds of people, animals, and plants that live in our world."



TEKS K.6.F Respond using newly acquired vocabulary as appropriate.

- Explain that, here, *plants* means living things that have leaves and roots and make their own food.
- Have students hold up one, two, or three fingers to indicate which image on this poster shows this meaning. (1)
- Explain that plants can also mean other things.
- Tell students that *plants* also means puts seeds into the ground. Have students hold up one, two, or three fingers to indicate which image on this poster shows this meaning. (2)
- Explain that *plants* can also mean manufacturing buildings or factories where people make things. Have students hold up one, two, or three fingers to indicate which image on this poster shows this meaning. (3)
- Have students turn to their neighbor and make a sentence for each meaning of *plants*. Remind students to use complete sentences.
- Call on some students to share their sentences aloud.



# Drawing Activity

Have students draw one of the things plants need to survive (food, water, or light).

End of Lesson

# Take-Home Material

# FAMILY LETTER

• Send home Activity Page 1.1.

Activity Page 1.1



# 2

## **PLANTS**

# Plant Parts

## PRIMARY FOCUS OF LESSON

# **Speaking and Listening**

Students will recall characteristics of living things.

### TEKS K.1.A

# Reading

Students will set a purpose for reading and will explain the purposes of the different parts of a plant.

## TEKS K.5.A; TEKS K.5.F; TEKS K.6.C; TEKS K.8.D.i

# Language

Students will use images to learn or clarify word meanings in the text and then will demonstrate an understanding of the Tier 2 word *survival*.

## TEKS K.3.B; TEKS K.6.F

# Reading

Students will identify different parts of a plant and the function of each.

### TEKS K.6.E

#### **FORMATIVE ASSESSMENT**

### **Activity Page 2.1**

**Plant Parts** Students will demonstrate understanding of plants and their different parts.



TEKS K.1.A Listen actively and ask questions to understand information and answer questions using multi-word responses; TEKS K.5.A Establish purpose for reading assigned and self-selected texts with adult assistance; TEKS K.5.F Make inferences and use evidence to support understanding with adult assistance; TEKS K.6.C Use text evidence to support an appropriate response; TEKS K.8.D.i Recognize characteristics and structures of informational text, including the central idea and supporting evidence, with adult assistance; TEKS K.3.B Use illustrations and texts the student is able to read or hear to learn or clarify word meanings; TEKS K.6.F Respond using newly acquired vocabulary as appropriate; TEKS K.6.E Interact with sources in meaningful ways such as illustrating or writing.

# LESSON AT A GLANCE

	Grouping	Time	Materials		
Introducing the Read-Aloud	Introducing the Read-Aloud				
What Have We Already Learned?	Whole Group	10 min.			
Essential Background Information or Terms					
Read-Aloud					
Purpose for Listening	Whole Group	30 min.	☐ Flip Book: 2A-1–2A-8		
"Plant Parts"					
Comprehension Questions					
Word Work: Survival					
This is	s a good opportunit	y to take	a break.		
Application					
Plant Parts	Independent	20 min.	☐ Activity Page 2.1		
			□ scissors		
			☐ glue		
			□ paper		

# ADVANCE PREPARATION

## **Universal Access**

- Complete the following Stem Activity with students to demonstrate how water moves up through the stem of the plant over the course of two days.
  - Fill two cups with water.
  - Put red food coloring in one cup and blue food coloring in another cup.
  - Put a freshly cut carnation or a stalk of celery in each cup.
  - Have students talk about what happens to the flower or stalk of celery.

 At the end of the activity, explain that the celery or flower changed color because the stem of the plant moved the water (and the dye with it) through the stem of the plant all the way to the top. As a result, the dye changed the color of the plant.

# **CORE VOCABULARY**

leaves, n. the parts of the plant that make food for the plant

Example: My sister has a leaf collection with leaves of many different sizes, shapes, and colors.

Variation(s): leaf

**roots, n.** the parts of the plant that keep it in the ground and take up food and water

Example: I made sure the roots of the plant were covered with soil when I planted it.

Variation(s): root

**seeds, n.** the small, protected parts of a plant that are able to grow into a new plant

Example: Carlos saved sunflower seeds to plant in his garden.

Variation(s): seed

**stems, n.** the parts of the plant that support the plant and carry water and nutrients to the rest of the plant

Example: After Mrs. Bryant cut the stems of the flowers, she put the flowers in a vase of water.

Variation(s): stem

survival, n. the act of staying alive

Example: A plant needs food for its survival.

Variation(s): none

Vocabulary Chart for "Plant Parts"					
Туре	Tier 3 Domain-Specific Words	Tier 2 General Academic Words	Tier 1 Everyday Speech Words		
Vocabulary	roots seeds stems	survival			
Multiple Meaning	leaves				
Sayings and Phrases	take up the survival of				

# **Lesson 2: Plant Parts**

# Introducing the Read-Aloud



**Speaking and Listening:** Students will recall characteristics of living things.

# TEKS K.1.A

### WHAT HAVE WE ALREADY LEARNED? (5 MIN.)

- Remind students that in the last lesson, they learned that plants are living things.
- Ask students to recall what plants and all other living things need. (food, water, air, and light)
- Remind students that living things also reproduce, or create more of themselves.
- Explain to students that you are going to read them a list of things—some
  that are living and some that are not. If what you name is alive, students
  should say, "\_\_\_\_\_\_ is living." If what you name is not alive, students should
  say, "\_\_\_\_\_\_ is nonliving."
  - desk (A desk is nonliving.)
  - tree (A tree is living.)
  - pencil (A pencil is nonliving.)
  - rosebush (A rosebush is living.)
  - mouse (A mouse is living.)
  - paper (Paper is nonliving.)



#### Check for Understanding

**Thumbs Up/Thumbs Down:** Plants, like other living things, reproduce, or make more of themselves. *(thumbs up)* 

#### TEKS K.1.A Listen actively and ask questions to understand information and answer questions using multi-word responses.

# Support

If students answer incorrectly, provide feedback and correct their responses by helping them use and apply the criteria for living things.

#### Challenge

If students answer correctly, have them explain why their answers are correct by using and applying the criteria for living things.

Lesson 2 Plant Parts

# ESSENTIAL BACKGROUND INFORMATION OR TERMS (5 MIN.)

- Tell students that there are many different types of plants.
- Explain that like people, plants come in different shapes and sizes, have different names, and live or grow in different places.
- Tell students that in the same way all people have similar features, all plants have similar parts.
- Reinforce that even though there are many different plants, they all have similar parts.

# Read-Aloud



**Reading:** Students will set a purpose for reading and will explain the purposes of the different parts of a plant.

## TEKS K.5.A; TEKS K.5.F; TEKS K.6.C; TEKS K.8.D.i

**Language:** Students will use images to learn or clarify word meanings in the text and then will demonstrate an understanding of the Tier 2 word *survival*.

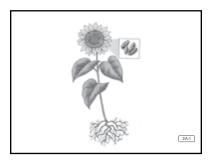
#### TEKS K.3.B; TEKS K.6.F

### **PURPOSE FOR LISTENING**

- Ask students to think about what they would like to learn from reading this section. Tell them that this is their purpose for reading the
- section. TEKS K.5.A
  - Tell students that looking at the pictures in the text can help them
- understand the meanings of any words that are new to them. TEKS K.3.B
  - Tell students that the main topic, or central idea, in this lesson is plant
- parts. TEKS K.8.D.i
- Tell students to listen carefully to the read-aloud to learn more about the different parts of plants and how these different parts use nutrients (or food), water, air, and light.

### "PLANT PARTS" (15 MIN.)

# TEKS K.3.B; TEKS K.5.A



#### **Show image 2A-1: Sunflower**

What do you see in this picture? Even though there are many, many different kinds of plants living in our world, all plants need nutrients (or food), water, air, and light. [Point to the parts of the flower as you talk about them.] And most plants also have similar basic parts—roots,

stems, <u>leaves</u>, flowers, and seeds. Leaves are

the parts of plants that make food for the plant. TEKS K.3.B

TEKS K.5.A Establish purpose for reading assigned and self-selected texts with adult assistance; TEKS K.5.F Make inferences and use evidence to support understanding with adult assistance; TEKS K.6.C Use text evidence to support an appropriate response; TEKS K.8.D.i Recognize characteristics and structures of informational text, including the central idea and supporting evidence, with adult assistance; TEKS K.3.B Use illustrations and texts the student is able to read or hear to learn or clarify word meanings; TEKS K.6.F Respond using newly acquired vocabulary as appropriate.

## Support

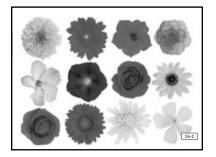
Explain that the word leaves can have other meanings. The word leaves also means goes away from a place. For additional support, please refer to Poster 2M in the Flip Book for multiple meanings of leaves.

Take a look at this sunflower. The parts of the plant you see down here at the bottom are the roots. The roots of the plant are covered with soil. So, when we see plants growing in nature, we usually aren't able to see the roots unless we take the plants out of the ground.

The plant's roots reach down into the soil and grow underground. They help to hold the plant in place in the soil. But most important, the roots take up water and nutrients that are in the soil. Nutrients help plants grow and stay healthy just like vitamins help you grow and stay healthy. The water and nutrients move through the roots up into the stem of the plant, which holds the plant up tall, toward the light. As the water and nutrients travel up the stem, they are able to reach other parts of the plant, like the leaves. The leaves are the parts of a plant that are attached to and grow out from the stem. The leaves are usually green, but they can be other colors as well.

Many plants have flowers which are also called blossoms. Look at the blossoms on this sunflower plant. Around the outside, it has many bright yellow petals. The flower petals of different plants come in every color you can imagine!

Now look in the center part of the sunflower blossom, the part that has many petals around it. This part of the plant is made up of many small seeds. One sunflower seed is only about the size of one of your fingernails! If the seeds of the sunflower plant are put into the soil, they will make a new sunflower plant! Sometimes people eat the seeds from some plants. You may have even tasted a sunflower seed yourself.



### **Show image 2A-2: Flowers**

Even though most plants have the same basic parts—roots, a stem, leaves, flowers, and seeds—these parts may look different on different kinds of plants. These beautiful flowers are from many different kinds of plants. Did you notice that, not only are the colors of the flowers different, but the flower

petals from different plants have different shapes, too?

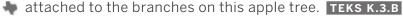


# **Show image 2A-3: Apple tree**

What do you see in this picture?

This apple tree has the same parts as the other plants we have seen. We can't see any apples because this picture was taken in the spring, when the blossoms, or flowers, come out. The apples will start growing in the summer and will be ready for picking in

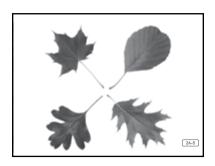
the fall. We can't see the roots of the apple tree because they are growing underground, but we can see several other parts. We can see many stems on the tree. The smaller stems are called branches. [Point to the branches.] Do you see the apple blossoms and the leaves? There are many, many leaves





# **Show image 2A-4: Bark**

The largest part of the tree is called the trunk. The outside of the trunk is covered in bark. Bark is kind of like clothing for trees: it protects the inside of the tree. What do you think this bark feels like?



## **Show image 2A-5: Leaves**

Here are some leaves from different kinds of trees. Take a close look, and you will notice that the leaves have different shapes. In fact, one way to tell what kind of tree you are looking at is to look closely at its leaves. [Point to the leaves as you name them.] The leaf on the top left is from a sugar maple tree. The leaf

below that is from a white oak tree. The leaf on the top right is from a witch hazel tree, and the leaf below that is from a black oak tree. Remember, many plants—not just trees—have leaves. In fact, leaves are especially important to the **survival** of plants. This means the leaves are especially important in making sure that plants stay alive.



# **Show image 2A-6: Leaves in sunlight**

When light shines on the green leaves of any plant, the leaves absorb—or soak up—energy from the light. Through an amazing process called photosynthesis, the leaf uses the light to turn the water and air already in the plant into food for the rest of the plant!



# **Show image 2A-7: Leaf close-up**

Do you remember earlier that we said the roots and stem of a plant move water and nutrients from the soil to the other parts of a plant, such as the leaves? During photosynthesis, water, nutrients, air, and light come together in the plant's leaves. This is how plants make food for themselves. It's a good thing, too, because

plants can't move like animals or people, so they aren't able to go find food somewhere else. Plants have to make food for themselves. Once the water and nutrients are made into food through photosynthesis, parts of the leaves called the veins carry the food back to the stem. [Point to the veins in the picture.] From





## **Show image 2A-8: Boy watering plant**

Now you have learned about most of the basic parts of many plants. Plants begin as seeds, which sprout and grow roots, stems, leaves, and then flowers. The roots, stems, and leaves work together with water, nutrients, air, and light to make food for the plant through photosynthesis. Say that word three times to

help you remember it: photosynthesis, photosynthesis, photosynthesis.



# Check for Understanding

**Point and Say It:** [Show image 2A-1: Sunflower. Point to the roots, then the stem, then the flower, then the leaves, and then, finally, the seeds. As you point, ask students the name of each of the different parts of the plant.]



responding to questions,

reread pertinent lines of

-lip

TEKS K.3.B Use illustrations and texts the student is able to read or hear to learn or clarify word meanings.

# COMPREHENSION QUESTIONS (10 MIN.)

- 1. **Inferential** What would happen if a plant didn't have roots? (If a plant didn't have roots, it wouldn't be able to take in nutrients and water.)
  - **Literal** What do roots do? (The roots keep a plant in the ground and take in water and nutrients for the plant.)
- 2. **Inferential** What would happen if a plant didn't have a stem? (If the plant didn't have a stem, it would fall over, and it wouldn't be able to move the water and nutrients from the roots to the rest of the plant.)
  - **Literal** What does the stem do? (*The stem supports the plant and moves water and nutrients to the rest of the plant.*)
- 3. **Inferential** What would happen if a plant didn't have leaves? (If the plant didn't have leaves, it would not be able to make food for itself.)
  - Literal What do the leaves do? (The plant makes its own food in its leaves.)
- 4. **Evaluative** *Think Pair Share:* What does each part of the plant (particularly roots, stem, and leaves) do to help the plant survive? (*Answers may vary, but may include that the roots keep the plant in the ground and take in water and nutrients; the stem holds the plant up tall and carries water and nutrients to the other parts; the leaves are where the plant makes food for itself.)*

# WORD WORK: SURVIVAL (5 MIN.)

- 1. In the read-aloud you heard, "In fact, leaves are especially important to the survival of all plants."
- 2. Say the word survival with me.
- 3. Survival is the act of staying alive.
- 4. Food, water, air, and light are important to a plant's survival.
- 5. What is important to a living thing's survival? Try to use the word *survival* when you tell us about it. [Ask two or three students. If necessary, guide and/or rephrase the students' responses: "\_\_\_\_\_\_ is important to a living thing's survival."]
- 6. What's the word we've been talking about?

**Use a Sharing activity for follow-up.** Share with the class why food, water, air, or light is important to a plant's survival. Be sure to begin your responses with "\_\_\_\_\_\_ is important to a plant's survival because . . ."



# Speaking and Listening

## **Listening Actively**

#### Beginning

Ask students simple yes/no questions (e.g., "If a plant didn't have roots, would it be able to take in nutrients and water?").

### Intermediate

Provide students with a specific sentence frame (e.g., "If a plant didn't have roots, then . . .").

# Advanced/Advanced High

Encourage students to use content-related words in complete sentences (e.g., "If a plant didn't have roots, then it would not be able to take in nutrients and water to feed itself.").

# ELPS 1.E; ELPS 2.D; ELPS 2.G; ELPS 2.I; ELPS 4.G

#### Challenge

Using image 2A-1, have a student volunteer to trace the upward path water and nutrients take from the ground to the roots, then through the stem, and finally to the leaves. As the student traces the path, help them use the core vocabulary to describe the plant parts.

# Activity Page 2.1



# Challenge

Have students label the different parts of the plant.

ENGLISH LANGUAGE LEARNERS



Writing

Writing

#### Beginning

Ask students to point to parts of their picture as you name them (e.g., "Point to the stem.").

### Intermediate

Provide students with a specific sentence frame (e.g., "The stem does . . .").

# Advanced/Advanced High

Encourage students to dictate a complete sentence using vocabulary words related to plants.

ELPS 5.B

## **Lesson 2: Plant Parts**

# Application



**Reading:** Students will identify different parts of a plant and the function of each.

TEKS K.6.E

# PLANT PARTS (20 MIN.)

- Have students turn to Activity Page 2.1 and cut out the plant parts.
- Have students paste the plant parts onto a separate sheet of paper to make a whole plant.
- Circulate around the room, asking students to identify each plant part and its function. Encourage students to use core vocabulary when possible.

End of Lessor

TEKS K.6.E Interact with sources in meaningful ways such as illustrating or writing.

# 3

# **PLANTS**

# The Life Cycle of a Plant

### PRIMARY FOCUS OF LESSON

# **Speaking and Listening**

Students will review the different parts of the plant and why each is important.

TEKS K.1.A

# Reading

Students will explain the basic life cycle of a plant.

TEKS K.6.D; TEKS K.8.D.ii; TEKS K.9.C

# Language

Students will demonstrate an understanding of the Tier 2 word mature.

TEKS K.6.F

### Reading

Using illustrations, students will explain the life cycle of a plant.

TEKS K.6.D; TEKS K.6.E; TEKS K.8.D.ii

# FORMATIVE ASSESSMENT

**Drawing Activity** 

**Life Cycle of a Plant** Students will draw the life cycle of a plant.

TEKS K.6.E

**TEKS K.1.A** Listen actively and ask questions to understand information and answer questions using multi-word responses; **TEKS K.6.D** Retell texts in ways that maintain meaning; **TEKS K.8.D.ii** Recognize characteristics and structures of informational text, including: titles and simple graphics to gain information; **TEKS K.9.C** Discuss with adult assistance the author's use of print and graphic features to achieve specific purposes; **TEKS K.6.F** Respond using newly acquired vocabulary as appropriate; **TEKS K.6.E** Interact with sources in meaningful ways such as illustrating or writing.

# **LESSON AT A GLANCE**

	Grouping	Time	Materials		
Introducing the Read-Aloud	Introducing the Read-Aloud				
What Have We Already Learned?	Whole Group	10 min.	☐ Flip Book: 3A-1		
Read-Aloud					
Purpose for Listening	Whole Group	30 min.	<ul><li>□ examples of seeds</li><li>□ ruler or yardstick</li></ul>		
"The Life Cycle of a Plant"			☐ Flip Book: 3A-2–3A-11		
Comprehension Questions					
Word Work: <i>Mature</i>					
This is	s a good opportunit	y to take	a break.		
Application					
Vocabulary Instructional Activity	Whole Group Independent	20 min.	☐ folded paper		
Drawing Activity	,		☐ drawing tools		

# **ADVANCE PREPARATION**

### **Read-Aloud**

- Prepare different examples of seeds to share with students (e.g., sunflower seeds, apple seeds, watermelon seeds, and pumpkin seeds).
- Prepare to show students how tall one or two feet is, and how tall ten feet is with a ruler or yardstick.

# **Application**

• Fold a piece of paper into three sections for each student to use during the drawing activity.

### **Universal Access**

 Have students make their own "see-through" planter, or make one for the classroom that you keep on display. This way, students may watch a plant's life cycle in action, beginning with the seed and watching it sprout and grow into a mature plant.

- Use a sealed package of bean seeds and paper towels.
- Wet the paper towels and "plant" beans in them.
- Place the paper towels and bean seeds in sealed, clear, plastic bags.
- Observe the roots as they form during the next few days.
- Help students keep a daily record of what goes on within the planter.

# **CORE VOCABULARY**

# germinate, v. to start to grow

Example: The rain will help the seeds in the garden germinate.

Variation(s): germinates, germinated, germinating

**mature, v.** to develop fully; to grow into an adult or full-grown animal or plant Example: It takes time for a seedling to mature into a full-grown, adult plant.

Variation(s): matures, matured, maturing

# sapling, n. a young tree

Example: Every day I check the sapling we planted to see how much it

has grown.

Variation(s): saplings

**seedlings, n.** baby plants that have grown from a seed

Example: At the apple orchard, we saw many small seedlings that will one

day grow into apple trees. Variation(s): seedling

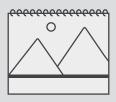
Vocabulary Chart for "The Life Cycle of a Plant"					
Туре	Tier 3 Domain-Specific Words	Tier 2 General Academic Words	Tier 1 Everyday Speech Words		
Vocabulary	germinate ( <i>germinar</i> ) sapling seedlings	mature ( <i>maduro/a</i> )			
Multiple Meaning					
Sayings and Phrases					

## Introducing the Read-Aloud



**Speaking and Listening:** Students will review the different parts of the plant and why each is important.

Flip Book 3A-1



ENGLISH LANGUAGE LEARNERS



Speaking and Listening

Reading/Viewing Closely

#### **Beginning**

Prompt and support students to recall words and phrases that relate to parts of the plant.

#### Intermediate

Provide moderate support in eliciting phrases and ideas with greater detail that relate to the given part of the plant.

## Advanced/Advanced High

Provide minimal support in eliciting key details relating to a given part of the plant.

ELPS 1.H; ELPS 2.D;

ELPS 3.D

#### WHAT HAVE WE ALREADY LEARNED?

#### **Show image 3A-1: Sunflower**

- Have students identify each part of the plant in the image. (roots, stem, and leaves)
- With students, review what each part of the plant does and why it is important. (The roots keep a plant in the ground and take in water and nutrients for the plant. The stem supports the plant and moves water and nutrients to the rest of the plant. The plant makes its own food in its leaves.)
- Reinforce the role that each part plays in the survival of the plant. (The roots keep the plant in the ground and take in water and nutrients. The stem holds the plant up tall and carries water and nutrients to the other parts. The leaves are where the plant makes food for itself.)



TEKS K.1.A

#### Check for Understanding

**Making Choices:** Does the stem or the roots keep a plant in the ground? (roots)

Does the stem or leaves hold the plant up tall? (stem)
Are the leaves or the roots the part where the plant makes food
for itself? (leaves)



TEKS K.1.A Listen actively and ask questions to understand information and answer questions using multi-word responses.

## Read-Aloud



**Reading:** Students will explain the basic life cycle of a plant.

#### TEKS K.6.D; TEKS K.8.D.ii; TEKS K.9.C

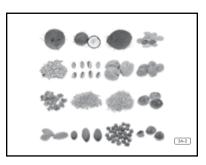
**Language:** Students will demonstrate an understanding of the Tier 2 word *mature*.

#### TEKS K.6.F

#### PURPOSE FOR LISTENING

- Tell students that the main topic, or central idea, of today's lesson is the life cycle of a plant.
- Explain to students that when a plant first starts to grow, it does not have all of the parts they have learned about.
- Tell students to listen to find out more about how the plant grows and changes during its life.
- Tell students to look at the graphic features closely to see what information
- those graphics offer. TEKS K.8.D.ii
  - Tell students that the author included the graphic features, such as images and
- diagrams, in the text to make the stages of the plant's life clear. TEKS K.9.C

#### "THE LIFE CYCLE OF A PLANT" (15 MIN.)



#### **Show image 3A-2: Seeds**

You have already learned about the different parts of a plant. One of those parts is the seed. Where can you find the seeds on a plant? [The seeds are found in the center of the flower.] Many plants begin with a seed. Seeds come in all shapes and sizes and, as you might guess, the seeds from different plants look

different. [Show students the different examples of seeds you have prepared.] Each seed is a plant waiting to sprout, or grow. If the seed is planted in the right place, then the seed will sprout and grow into a new plant. Only a sunflower plant can grow from a sunflower seed, and only an apple tree can grow from an apple seed. What type of plant do you think would grow if you planted a watermelon seed? How about a pumpkin seed?

**TEKS K.6.D** Retell texts in ways that maintain meaning; **TEKS K.8.D.ii** Recognize characteristics and structures of informational text, including: titles and simple graphics to gain information; **TEKS K.9.C** Discuss with adult assistance the author's use of print and graphic features to achieve specific purposes; **TEKS K.6.F** Respond using newly acquired vocabulary as appropriate.



#### Support

Ask students, "What are the four things a plant needs to survive?"

#### Challenge

Ask students, "Why
do you think it takes
longer for a tree seedling
to grow into a fullgrown plant than for a
sunflower seedling to
grow into a full-grown
plant?"

#### **Show image 3A-3: Phases of germination**

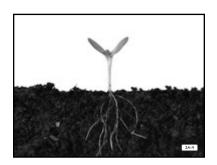
Seeds are the beginnings of new plants. Like all living things, plants live according to a life cycle. A life cycle includes the stages and changes that happen in living things.

The life cycle of a plant starts with a seed. Most seeds have nutrients inside them that feed the new plants for just a little while. In

order to **germinate**—or begin growing into new plants—seeds must have water, light from the sun, and nutrients from the soil.

When a plant first starts to grow from a seed, it looks very different from a fully grown or mature plant. Baby plants are called **seedlings**. This image shows a plant's growth from germination to seedling. What do you see in this picture?

The very first picture shows a newly germinated seed that is just beginning to sprout. Germination begins when the seed gets just the right amount of light from the sun, water, and nutrients. This causes the seed to open and the seedling to poke up through the soil. If you look very carefully at this first picture, you can see that the new plant is just starting to grow its first root. [Point to each part of the image as it is described in the read-aloud.] The next pictures show the same plant over several days. As the plant grows, you can see thin roots branching off deeper into the soil. The roots absorb water and nutrients and push them up through the plant's stem, which grows above ground.



#### Show image 3A-4: Seedling

It takes time for a seedling to grow into a full-grown, adult plant. The amount of time it takes depends on the type of plant. If you plant a sunflower seed, it will take about a month before the seedling begins to look more like a full-grown sunflower plant. If you plant an apple seed, it will take several years for the seedling to grow into a full-grown tree!

When the plant dies, it decays and breaks down into little pieces and goes back into the ground to become nutrients in the soil. A new life cycle of a plant begins!



#### **Show image 3A-5: Acorn and oak**

Now, let's explore the life cycle of this oak tree. This acorn contains the seed of an oak tree. [Point to the acorn.] You may have seen acorns before, on the ground outside next to full-grown trees, or being carried away by squirrels.



#### Show image 3A-6: Squirrel eating an acorn

Squirrels spend all day running around looking for food and hiding food. They bury so many acorns they often forget where they put some of them. The acorn the squirrel forgets stays in the soil, giving the oak seed inside a better chance to germinate underground. What does germinate mean? [Germinate means to begin

growing into new plants.] Once the seed sprouts, it will quickly grow into a seedling, but the young tree will grow only a foot or two in its first year. [Show students how tall one or two feet is with a ruler or yardstick.]



#### Show image 3A-7: Young oak

After a few years, the oak will grow to a height of ten or more feet, but it is still considered a young tree or **sapling**. [Show students how tall ten feet is with a ruler or yardstick.] This tree will still be called a sapling for several years to come.



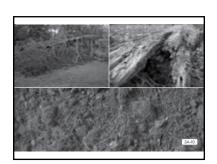
#### **Show image 3A-8: Mature oak**

Oak trees take a long time to **mature** or grow into an adult or full-grown tree. In fact, it takes about fifty years for the average oak tree to mature so it can produce acorns. An oak tree can produce tens of thousands of acorns over the course of its lifetime. Only a few of those acorns will germinate and grow into new oak trees.



#### **Show image 3A-9: Dead tree**

Some oak trees can live for over two hundred years. Eventually, like all living things, the oak tree will die. The oak tree will die slowly over the course of several years. It will produce fewer and fewer leaves each year, its branches will drop off one by one, and gradually its wood will become softer and softer.

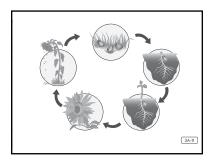


#### **Show image 3A-10: Decomposition**

Finally, the roots will die and the tree will fall down with a big crash on the forest floor. The tree's branches will be the first to rot and disappear into the soil, but the woody trunk will take many years to completely decay.

All of the nutrients in the wood will decay and become part of the soil once again. The more

decayed plants there are in the soil, the more nutrients the soil will have. And, the more nutrients there are, the easier it will be for new seeds, like the acorn seeds, to germinate and grow.



#### **Show image 3A-11: Life cycle of a sunflower**

As we have seen, all plants live according to a life cycle. This diagram shows you the life cycle of a sunflower. [Point to each part of the life cycle as it is reviewed.] A new plant begins when the sunflower seed germinates and sprouts to become a seedling. If the seedling receives the right amount of water,

nutrients, and light, then the plant will continue to grow. Eventually, the plant will become mature and make more seeds from which new plants will grow. When the sunflower dies and decays, it becomes the nutrients in the soil so that seeds can germinate and grow into new plants. And a new life cycle of a



#### Challenge

Reread the passage about the life cycle of a sunflower, and have students point to each part of the life cycle as you say it.

**TEKS K.8.D.ii** Recognize characteristics and structures of informational text, including: titles and simple graphics to gain information; **TEKS K.9.C** Discuss with adult assistance the author's use of print and graphic features to achieve specific purposes.



#### Check for Understanding

**Recall:** What things does a seed need to germinate? (A seed needs water, warmth from the sun, and nutrients to germinate.)

#### **COMPREHENSION QUESTIONS (10 MIN.)**

1. **Literal** A plant's life cycle begins with what part of the plant? (A plant's life cycle begins with the seed.)

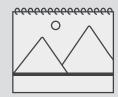
#### **Show image 3A-4: Seedling**

- 2. **Literal** What parts of a plant does a seedling have? (A seedling has roots, a stem, and leaves.)
  - Literal What is a seedling? (A seedling is a young plant.)
- 3. **Inferential** Explain the life cycle of a plant. (First, the seed germinates and sprouts into a seedling. Next, the seedling continues to grow until it is an adult plant. Then, the adult plant will make more seeds from which new plants will grow. Finally, the plant will decay and turn into nutrients in the soil.)
- 4. **Evaluative** *Think Pair Share:* Compare the life cycle of a plant to the life cycle of a human. How are they similar? How are they different? (Answers may vary, but may include that both plants and humans start off small and grow to be big; plants grow from seeds, whereas humans do not grow from seeds.)

#### WORD WORK: MATURE (5 MIN.)

- 1. In the read-aloud you heard, "Oak trees take a long time to mature. In fact, it takes about fifty years for the average oak tree to mature so that it can produce acorns."
- 2. Say the word mature with me.
- 3. Mature means to grow into an adult or full-grown animal or plant.
- 4. I can see beans on my bean plant, so it has started to mature.
- 5. Tell us about plants or animals that mature. Try to use the word *mature* when you tell us about it. [Ask two or three students. If necessary, guide and/or rephrase students' responses: "A baby \_\_\_\_\_ matures into an adult \_\_\_\_."]
- 6. What's the word we've been talking about?

#### Flip Book 3A-4



#### Support

If students have difficulty responding to questions, reread pertinent lines of the read-aloud and/or refer to specific images.



ENGLISH LANGUAGE LEARNERS

## Speaking and Listening

#### Offering Opinions

#### **Beginning**

Provide students sentence frames using a small set of learned phrases (e.g., "I think the life cycle of a plant and a human are similar because . . .").

#### Intermediate

Provide students sentence frames using an expanded set of learned phrases (e.g., "I think the life cycle of a plant is similar to the life cycle of a human because both . . .").

### Advanced/Advanced High

Provide minimal support and guidance for open responses.

ELPS 1.H; ELPS 2.C;

ELPS 3.G

**Use a Making Choices activity for follow-up.** I am going to list some things. If any of the things I say mature, give me a thumbs up. If they do not mature, give me a thumbs down.

- a kitten (thumbs up)
- a seed (thumbs up)
- a hat (thumbs down)
- a baby turtle (thumbs up)
- a table (thumbs down)

## Application



**Reading:** Using illustrations, students will explain the life cycle of a plant.

TEKS K.6.D; TEKS K.6.E; TEKS K.8.D.ii

#### **VOCABULARY INSTRUCTIONAL ACTIVITY (5 MIN.)**

#### Cycle

- Remind students that in the read-aloud they heard, "Like all living things,
  plants live according to a life cycle. A life cycle includes the stages and
  changes that happen in living things."
- Have students say the word cycle aloud with you.
- Explain that a cycle is a repeated series of events, or things that happen over and over again in a particular order.
- Provide the following example sentence:
  - The life cycle of a chicken begins when it is an egg.
- Ask students what other living things have life cycles they can describe. Call
  on two or three students, reminding them to use the word cycle when they
  talk about it. If necessary, guide and/or rephrase students' responses: "The
  life cycle of a \_\_\_\_\_\_\_ begins when . . ."]

#### DRAWING ACTIVITY (15 MIN.)

- Give each student a piece of paper that has been folded into three sections.
- Show Image 3A-11. Tell students that before they begin to draw, they can look at the graphics to help them in drawing a life cycle. **TEKS K.8.D.ii**



#### Check for Understanding

**Turn and Talk:** What does a life cycle include? (A life cycle includes the stages and changes that happen in living things.)

**TEKS K.6.D** Retell texts in ways that maintain meaning; **TEKS K.6.E** Interact with sources in meaningful ways such as illustrating or writing; **TEKS K.8.D.ii** Recognize characteristics and structures of informational text, including: titles and simple graphics to gain information.

#### Support

Students may complete this activity in pairs for additional support and discussion.





#### Writing

Writing

#### **Beginning**

Have students use phrases and familiar vocabulary to describe their drawing.

#### Intermediate

Have students describe their drawing using short sentence(s).

## Advanced/Advanced High

Have students describe their drawing using longer, more detailed sentence(s).

#### ELPS 5.B; ELPS 5.G

- Have students draw the life cycle of a plant.
- Explain that in the first panel, they should illustrate the first phase of a plant's life cycle. In the second panel, they should illustrate what happens when a plant matures. In the last panel, students should illustrate the end of a plant's life cycle.

Circulate around the room while discussing students' drawings and the different phases of the life cycle.

End of Lesso

# 4

#### **PLANTS**

## The Gigantic Turnip

#### PRIMARY FOCUS OF LESSON

#### **Speaking and Listening**

Students will describe and discuss gardens.

TEKS K.1.A

#### Reading

Students will describe the life cycle of a make-believe turnip.

TEKS K.5.F; TEKS K.7.C

#### Language

Students will demonstrate an understanding of the Tier 2 word gigantic.

TEKS K.6.F

#### Reading

Students will sequence the life cycle of a turnip.

TEKS K.6.E; TEKS K.8.D.iii

#### **FORMATIVE ASSESSMENT**

#### Activity Page 4.1

A Turnip's Life Cycle Students will sequence images illustrating the life cycle of a turnip and will orally describe the life cycle.



TEKS K.1.A Listen actively and ask questions to understand information and answer questions using multi-word responses; TEKS K.5.F Make inferences and use evidence to support understanding with adult assistance; TEKS K.7.C Identify the elements of plot development including the main events, the problem, and the resolution for texts read aloud with adult assistance; TEKS K.6.F Respond using newly acquired vocabulary as appropriate; TEKS K.6.E Interact with sources in meaningful ways such as illustrating or writing; TEKS K.8.D.iii Recognize characteristics and structures of informational text, including the steps in a sequence with adult assistance.

#### LESSON AT A GLANCE

	Grouping	Time	Materials	
Introducing the Read-Aloud				
Essential Background Information or Terms	Whole Group	10 min.	☐ turnip (optional) ☐ Flip Book: 4A-1	
Read-Aloud				
Purpose for Listening	Whole Group	30 min.	☐ Flip Book: 4A-2–4A-8	
"The Gigantic Turnip"				
Comprehension Questions				
Word Work: Gigantic				
This is a good opportunity to take a break.				
Application				
A Turnip's Life Cycle	Independent	20 min.	☐ Activity Page 4.1	
			□ scissors	
			☐ glue	
			□ paper	

#### ADVANCE PREPARATION

#### **Introducing the Read-Aloud**

• If possible, bring in a turnip to show students.

**Note:** Be sure to check your school's policy regarding food distribution and allergies

#### CORE VOCABULARY

**budge, v.** to move a little

Example: Tisha and I tried very hard to push the big rock out of the way, but

it would not budge.

Variation(s): budges, budged, budging

gigantic, adj. very large

Example: By studying the bones of dinosaurs, scientists know that some

were small and others were gigantic.

Variation(s): none

stew, n. a soup, usually with meat and vegetables, cooked a long time

Example: I am helping my mom cut vegetables for the beef stew she is

making for dinner. Variation(s): stews

Vocabulary Chart for "The Gigantic Turnip"					
Туре	Tier 3 Domain-Specific Words	Tier 2 General Academic Words	Tier 1 Everyday Speech Words		
Vocabulary		budge gigantic stew			
Multiple Meaning					
Sayings and Phrases	took hold of a little bit of help can make a big difference				

## Introducing the Read-Aloud



**Speaking and Listening:** Students will describe and discuss gardens.

-to

Flip Book 4A-1

 $\cap$ 

#### TEKS K.1.A

#### **ESSENTIAL BACKGROUND INFORMATION OR TERMS**

#### **Show image 4A-1: Turnip**

- Tell students they are about to hear a story called "The Gigantic Turnip."
- Explain that a turnip is a plant that some people grow in their gardens, and show students a real turnip.
- Ask students what they already know about gardens.
  - What's a garden? (A garden is a place where a person grows plants, specifically vegetables.)
  - What are some other plants that people grow in gardens? (Answers may vary, but may include corn, squash, tomatoes, and pumpkins.)
  - Why might people plant gardens? (People might plant gardens so they can eat the vegetables they grow instead of buying them from a store.)
- Explain that one reason people have gardens is to grow food, such as turnips, to eat.
- Tell students that some people like to eat the turnip leaves, or greens, that grow above ground.
- Tell students that another part of the turnip people like to eat grows underground and is actually the root of the plant.
- Explain that when a farmer wants to harvest a turnip, they have to dig it up or pull the root out of the ground.



TEKS K.1.A Listen actively and ask questions to understand information and answer questions using multi-word responses.

#### **Lesson 4: The Gigantic Turnip**

## Read-Aloud



**Reading:** Students will describe the life cycle of a make-believe turnip.

#### TEKS K.5.F; TEKS K.7.C

**Language:** Students will demonstrate an understanding of the Tier 2 word *gigantic*.

#### TEKS K.6.F

#### **PURPOSE FOR LISTENING**

• Tell students to listen carefully to find out about the life cycle of a very special turnip.

#### "THE GIGANTIC TURNIP" (15 MIN.)



## Show image 4A-2: Farmer planting a turnip seed

Once upon a time there was an old man who planted vegetable seeds every year to grow vegetables for himself and his wife. One spring day, he planted turnip seeds in a field just over the hill from his house. He let the sun shine on them and the rain water them, and when he

thought they should be ready to eat, he went to have a look. As he came up over the hill, to his surprise he saw a strange bush growing in the middle of the field. When he drew nearer, he saw that it was not a bush, but the top of a **gigantic** turnip! Gigantic means very large. What part of the turnip plant was the farmer looking at?

"I've never seen a turnip as big as this one!" he said to himself. "I must show it to my wife."



#### Show image 4A-3: Farmer pulling turnip

[Point to the top of the turnip.]
So he took hold of the turnip top, and with a great grunt, he pulled and pulled and pulled, but the turnip would not **budge**. When something will not budge, that means it will not

**TEKS K.5.F** Make inferences and use evidence to support understanding with adult assistance; **TEKS K.7.C** Identify the elements of plot development including the main events, the problem, and the resolution for texts read aloud with adult assistance; **TEKS K.6.F** Respond using newly acquired vocabulary as appropriate.

*move.* So the old man shouted for his wife to come and help. "All right," said the old woman. "I'm coming."



## Show image 4A-4: Farmer and wife pulling turnip

The old woman took hold of the old man, the old man took hold of the turnip, and they pulled and pulled. But they couldn't pull the turnip out of the ground. So the old woman called to their granddaughter.

"All right," said the granddaughter. "I'm coming."

The granddaughter took hold of the old woman, the old woman took hold of the old man, the old man took hold of the turnip, and they pulled and pulled, but they couldn't pull the turnip out. So the granddaughter called the grandson over.

"All right," said the grandson. "I'm coming."



## Show image 4A-5: Farmer, wife, granddaughter, and grandson pulling turnip

The grandson took hold of the granddaughter, the granddaughter took hold of the old woman, the old woman took hold of the old man, the old man took hold of the turnip, and they pulled and pulled, but they couldn't pull the turnip out. So the grandson called the dog

over. Why do you think the grandson called the dog over?

The dog barked four times. If it could have spoken, it would have said, "All right. I'm coming."

The dog took hold of the grandson, the grandson took hold of the granddaughter, the granddaughter took hold of the old woman, the old woman took hold of the old man, the old man took hold of the turnip, and they pulled and pulled, but they couldn't pull the turnip out.

So the dog called the cat over.



## Show image 4A-6: Farmer, wife, granddaughter, grandson, dog, and cat pulling turnip

The cat meowed loudly. If it could have spoken, it would have said, "All right. I'm coming."

The cat took hold of the dog, the dog took hold of the grandson, the grandson took hold of the granddaughter, the granddaughter took

hold of the old woman, the old woman took hold of the old man, the old man took hold of the turnip, and they pulled and pulled, but they couldn't pull the turnip out. So the cat called the mouse over.

The mouse squeaked. If it could have spoken, it would have said, "All right. I'm coming."

The mouse took hold of the cat, the cat took hold of the dog, the dog took hold of the grandson, the grandson took hold of the granddaughter, the granddaughter took hold of the old woman, the old woman took hold of the old man, the old man took hold of the turnip, and they pulled and pulled.



## Show image 4A-7: Whole group tumbling to the ground

Finally, the turnip popped out, sending everybody tumbling along the ground.

That evening, the old woman peeled the turnip, sliced it up, and cooked a delicious turnip **stew**. A stew is a type of soup.



#### **Show image 4A-8: Turnip stew**

She invited the grandson, the granddaughter, the dog, the cat, and the mouse to eat the stew with them. She gave the mouse an extra helping, because he had shown that sometimes a little bit of help can make a big difference.

#### Challenge

Ask students what "a little bit of help can make a big difference" means.

#### Check for Understanding

**Recall:** What is the life cycle of the turnip in this story? (The old man plants the turnip, it grows to be gigantic, it gets pulled out of the ground, and then it gets used to make turnip stew.)

#### Support

If students have difficulty responding to questions, reread pertinent lines of the read-aloud and/or refer to specific images.





Speaking and Listening

Offering Opinions

#### **Beginning**

Provide students sentence frames using a small set of learned phrases (e.g., "I think this story is . . .").

#### Intermediate

Provide students sentence frames using an expanded set of learned phrases (e.g., "I think this story is fiction because . . .").

## Advanced/Advanced High

Provide minimal support and guidance for open responses.

ELPS 1.E; ELPS 3.G

#### **COMPREHENSION QUESTIONS (10 MIN.)**

- 1. **Literal** Who are the characters in this story? (The characters in this story are the old man, the old woman, the granddaughter, the grandson, the dog, the cat, and the mouse.)
- 2. **Inferential** Why does the old man want to plant a turnip? (*The old man wants to plant a turnip so he and his wife can eat it.*)
  - Literal What does the old man plant? (turnip seeds)
  - Literal What grows out of the turnip seed? (a turnip)
- 3. **Inferential** Why does the mouse get an extra serving of turnip stew? (It was with his help that they were finally able to pull the turnip out of the ground. "A little help can make a big difference.")
- 4. **Evaluative** *Think Pair Share:* Why do you think the turnip plant grows to be gigantic in the story? Do you think this story is fiction, or make-believe, or do you think it could really happen? Why or why not? (*Answers may vary, but may include that the turnip grows that large because it gets lots of water and plenty of light; the story is make-believe because turnips do not grow that large in real life.)*

#### WORD WORK: GIGANTIC (5 MIN.)

- 1. In the read-aloud you heard, "When [the farmer] drew nearer, he saw that it was not a bush, but the top of a gigantic turnip!"
- 2. Say the word gigantic with me.
- 3. When someone says something is gigantic, it means that is very large.
- 4. That house is gigantic—it has twenty bedrooms!
- 5. Tell us about something you have seen that is gigantic. Try to use the word *gigantic* when you tell us about it. [Ask two or three students. If necessary, guide and/or rephrase the students' responses: "I saw a gigantic \_\_\_\_\_."]
- 6. What's the word we've been talking about?

**Use a Making Choices activity for follow-up.** I am going to name some things. If the thing I name is gigantic, say, "That is gigantic!" If the thing I name is not gigantic, say, "That is not gigantic." Remember to answer in complete sentences.

- a mouse the size of a shoebox (A mouse the size of a shoebox is gigantic!)
- a person the size of your hand (A person the size of your hand is not gigantic.)
- a pizza as big as a truck (A pizza as big as a truck is gigantic!)
- a book the size of a door (A book the size of a door is gigantic!)
- a tree the size of your thumb (A tree the size of your thumb is not gigantic.)

## Application



**Reading:** Students will sequence the life cycle of a turnip.

TEKS K.6.E; TEKS K.8.D.iii

#### A TURNIP'S LIFE CYCLE

- Have students turn to Activity Page 4.1.
- Explain that each illustration shows a turnip at a different stage in its life cycle.

TEKS K.8.D.iii

- Remind students that a life cycle includes the stages and changes that happen in living things. A plant's life cycle often begins with a seed, which then grows into a plant, and later dies at the end of its life cycle.
- Have students color the four images.
- Next, have them cut out each of the images of the turnip and put them in the correct order of the life cycle of the turnip.
- Circulate around the room, discussing the pictures with students and ensuring they sequence them in the correct order.
- Students should then glue the pictures in the correct sequence onto a separate sheet of paper.
- If time allows, have two or three students present their sequenced pictures to the class, describing the life cycle of a turnip plant.

#### Activity Page 4.1



#### ENGLISH LANGUAGE LEARNERS



Writing

Writing

#### **Beginning**

Ask students to point to the different pictures as you name them (e.g., "Point to the picture that shows the beginning of the turnip's life cycle.").

#### Intermediate

Provide students with a specific sentence frame (e.g., "The beginning of the turnip's life cycle is . . .").

#### Advanced/Advanced High

Encourage students to dictate or write a complete sentence using vocabulary words related to the life cycle of a turnip.

ELPS 4.G; ELPS 5.B;

ELPS 5.F

**TEKS K.6.E** Interact with sources in meaningful ways such as illustrating or writing; **TEKS K.8.D.iii** Recognize characteristics and structures of informational text, including the steps in a sequence with adult assistance.

#### Kindergarten | Knowledge 4

## Pausing Point

#### NOTE TO TEACHER

You should pause here and spend two days reviewing, reinforcing, or extending the material taught so far.

You may have students do any combination of the activities listed below, but it is highly recommended that you use the Mid-Domain Assessment to assess students' knowledge of plants, their parts, and their life cycles. The other activities may be done in any order. You may also choose to do an activity with the whole class or with a small group of students who would benefit from the particular activity.

#### CORE CONTENT OBJECTIVES UP TO THIS PAUSING POINT

#### Students will:

- Explain that different kinds of plants grow in different environments
- Identify plants as living things
- Describe what plants need to live and grow: food, water, air, and light
- Identify the root, stem, leaf, flower, and seed of a plant
- Explain basic facts about the root, stem, leaf, and seed of a plant
- Explain the basic life cycle of plants

#### **MID-DOMAIN ASSESSMENT**

#### Plant Parts (Activity Page PP.1)

• Using Activity Page PP.1, have students add to the drawing of the plant stem. Check to ensure they include roots, leaves, and flowers. Walk around and talk with students about each plant part as they complete the worksheet.

#### Activity Page PP.1



#### **ACTIVITIES**

#### **Image Review**

• Show the images from any read-aloud again and have students retell the read-aloud using the images.

#### **Image Card Review**

#### Materials: Image Cards 15-19

• In your hand, hold Image Cards 15–19 fanned out like a deck of cards. Ask a student to choose a card and to not show it to anyone else in the class. The student must then perform an action or give a clue about the picture they are holding. For example, for the image of seeds, a student may give the clue, "These are what plants grow from." The rest of the class will guess what is being described. Proceed to another card when the correct answer has been given.

#### **Plant Parts Review**

#### Materials: Various plants; drawing paper, drawing tools

 Bring in different plants and ask students to identify the parts. After talking about plants, have students design and illustrate their own plant on a piece of paper, instructing them to include all parts of a plant (root, stem, leaf, etc.).
 Instruct students to share their drawings and identify the parts of their plant while sharing. Their classmates may also want to guess where the parts of that particular plant are located on the drawing.

#### **Challenge: Humans vs. Plants**

 Compare and contrast human beings and plants. What do we need to keep our bodies healthy that plants also need to stay healthy? Record student answers on a Venn diagram.

#### "See-Through" Planter

• Using a sealed package of bean seeds and paper towels, create a "seethrough" planter. Wet the paper towels and "plant" beans in them. Place the paper towels and bean seeds in sealed, clear, plastic bags. Observe the roots as they form during the next few days.

#### **Class Book: Plants**

#### Materials: Drawing paper, drawing tools

Tell the whole class, or a group of students, that they are going to make a
class book to help them remember what they have learned thus far in this
domain. Have students brainstorm important information about plants,
plant parts, and the life cycle of plants. Have each student choose one idea
to draw a picture of and then have them write a caption for the picture. Bind

#### Image Cards 15-19



the pages to make a book to put in the class library for students to read again and again. You may choose to wait and add more pages upon completion of the entire domain before binding the book.

#### **Domain-Related Trade Book or Student Choice**

#### Materials: Trade book

• Read an additional trade book to review a particular concept. You may also choose to have students select a read-aloud to be heard again.

#### **Nature Walk**

**Note:** This activity requires additional adult support. If you are not able to take your students outside, you may wish to bring some different plants into the classroom for students to observe.

- Go on a nature walk to observe plants. Divide the class into three groups. The first group should take note of the specific places plants live. The second group should take note of the different sizes of the plants. (You may wish to give these students a nonstandard unit of measurement to help them differentiate among the sizes of the plants.) The third group should take note of the different colors of the plants.
- Back in the classroom, record students' observations on a chart with three columns, one for each group (places, sizes, colors).
- Explain to students that you are going to write down what they say, but they are not expected to be able to read what you write because they are still learning all the rules for decoding. Emphasize that you are writing what they say so you don't forget, and also tell them you will read the words back to them.

#### Plant Dramatization

• Have students crouch down and pretend they are a seed. Have students use their bodies to stretch upward and "grow" into a plant. Make sure students talk about what they are doing as they are doing it. Encourage students to use key words like seed, seedling, roots, flowers, leaves, and stems. Ensure that as students become full-grown plants, they use their body parts to identify each part of the plant.

#### **Plant Experiment**

Materials: Four packets of seeds; four containers; soil; water; sunlight

- Plant seeds in four different containers. With the first group of seeds, provide no water or sun. With the second group of seeds, provide water but no sunlight. With the third group of seeds, provide sunlight, but no water.
   With the fourth group of seeds, provide water and sun. Be sure to explain to students what you are doing.
- Have students make predictions about which of the seeds will sprout and grow the best. Observe each of the containers every couple of days. Discuss with your class the changes that have occurred, if any. After a week or two, revisit the predictions and discuss with students whether their predictions were correct, and why or why not.

**Note:** If students completed this experiment at home with their families, ask them to share the results.

# 5

#### **PLANTS**

## Polly the Honeybee's Flower Tour

#### PRIMARY FOCUS OF LESSON

#### **Speaking and Listening**

Students will recall facts about different plant parts.

#### TEKS K.1.A

#### Reading

Students will listen carefully for words that the author uses to help readers visualize scenes from the story and then will describe the basic process of pollination.

#### TEKS K.5.A; TEKS K.5.D; TEKS K.6.D; TEKS K.9.D

#### Language

Students will demonstrate an understanding of the Tier 3 word pollination.

#### TEKS K.6.F

#### Reading

Students will work together, taking turns to act out the basic process of pollination.

#### TEKS K.1.D; TEKS K.5.G

#### **FORMATIVE ASSESSMENT**

#### **Exit Pass**

**Oral** Students will provide one fact they learned about the process of pollination.

#### TEKS K.5.G

TEKS K.1.A Listen actively and ask questions to understand information and answer questions using multi-word responses; TEKS K.5.A Establish purpose for reading assigned and self-selected texts with adult assistance; TEKS K.5.D Create mental images to deepen understanding with adult assistance; TEKS K.6.D Retell texts in ways that maintain meaning; TEKS K.9.D Discuss with adult assistance how the author uses words that help the reader visualize; TEKS K.6.F Respond using newly acquired vocabulary as appropriate; TEKS K.1.D Work collaboratively with others by following agreed-upon rules for discussion, including taking turns; TEKS K.5.G Evaluate details to determine what is most important with adult assistance.

#### **LESSON AT A GLANCE**

	Grouping	Time	Materials		
Introducing the Read-Aloud					
What Have We Already Learned?	Whole Group	10 min.	☐ different types of flowers (optional)		
Essential Background Information or Terms			□ picture of a honeybee		
Read-Aloud					
Purpose for Listening	Whole Group	30 min.	☐ Image Card 1☐ Flip Book: 5A-1 5A-6☐		
"Polly the Honeybee's Flower Tour"					
Comprehension Questions					
Word Work: Pollination					
This is a good opportunity to take a break.					
Application					
Pollination Simulation	Independent	20 min.	□ scraps of paper		
			□ cotton balls		

#### **ADVANCE PREPARATION**

#### **Introducing the Read-Aloud**

- Bring in different types of flowers to show students.
- Bring in a picture of a honeybee to show students.

#### **Application**

- Assign roles to students for the pollination simulation, with some students playing the roles of flowers and some playing the roles of bees.
- Bring in scraps of paper, cotton balls, or other appropriate props for students to use to represent pollen.

#### **Universal Access**

• Find a brief, student-appropriate video that demonstrates the process of pollination to support today's lesson.

#### **CORE VOCABULARY**

honey, n. a sweet, sticky food made by bees from the nectar of flowers

Example: Elana often puts honey in her tea to make it taste sweeter.

Variation(s): none

nectar, n. a sweet liquid found in flowers that bees and some birds collect

Example: The bee collected the nectar from the lilac flower.

Variation(s): nectars

petals, n. the colored, outer parts of a flower

Example: Some roses have red petals.

Variation(s): petal

pollen, n. a fine, yellowish powder found in the center of flowers

Example: Bees keep pollen in special pouches on their legs.

Variation(s): none

**pollination, n.** when pollen from one flower lands on another flower and the second flower makes seeds

Example: Bees help with pollination by carrying pollen from one flower to

another.

Variation(s): none

Vocabulary Chart for "Polly the Honeybee's Flower Tour"					
Туре	Tier 3 Domain-Specific Words	Tier 2 General Academic Words	Tier 1 Everyday Speech Words		
Vocabulary	honey nectar (néctar) petals pollen pollination				
Multiple Meaning					
Sayings and Phrases	the most important				

### Lesson 5: Polly the Honeybee's Flower Tour Introducing the Read-Aloud



Speaking and Listening: Students will recall facts about different plant parts.



#### TEKS K.1.A

#### WHAT HAVE WE ALREADY LEARNED? (5 MIN.)

- Remind students that plants have many different parts.
- Ask students to name some of the important parts of a plant. (roots, stems, branches, leaves, flowers, and seeds)

#### ESSENTIAL BACKGROUND INFORMATION OR TERMS (5 MIN.)

- Explain that today, students are going to learn more about flowers.
- If possible, show students examples of different kinds of flowers, and help them name each kind.
- Tell students that many animals like flowers, just like people do.
- Tell students that they will get a chance to listen to a special guest, Polly the Honeybee. Polly loves flowers!
- Show students a picture of a real honeybee.



#### Check for Understanding

**Recall:** What are flowers? (a part of a plant)



**TEKS K.1.A** Listen actively and ask questions to understand information and answer questions using multi-word responses.

## Lesson 5: Polly the Honeybee's Flower Tour Read-Aloud



**Reading:** Students will listen carefully for words that the author uses to help readers visualize scenes from the story and then will describe the basic process of pollination.

#### TEKS K.5.A; TEKS K.5.D; TEKS K.6.D; TEKS K.9.D

**Language:** Students will demonstrate an understanding of the Tier 3 word *pollination*.

#### TEKS K.6.F

#### PURPOSE FOR LISTENING

- Tell students to listen carefully to learn about how Polly and her honeybee friends help flowers.
- Tell students that the author uses particular words to help the reader see, or
- visualize, pictures in his or her mind. TEKS K.5.D; TEKS K.9.D

#### "POLLY THE HONEYBEE'S FLOWER TOUR" (15 MIN.)



#### Show image 5A-1: Polly in meadow

Hello, my name is Polly and I'm a honeybee. I live in a beehive in a meadow not too far from here. A meadow is a flat area of land that is usually covered with grass and flowers. Your teacher asked me to come here today to tell you more about flowers, my favorite part of plants. As you have learned, flowers contain seeds and seeds can grow into new plants.

I am delighted to come and tell you about flowers, because flowers are one of my favorite things in the whole world. The meadow near my beehive is full of all different kinds of flowers that come in many different colors.



#### **Show image 5A-2: Polly and yellow flower**

Earlier today, I visited a particularly delicious yellow flower. Come along, and I'll show it to you. Why might Polly describe a flower as delicious?

**TEKS K.5.A** Establish purpose for reading assigned and self-selected texts with adult assistance; **TEKS K.5.D** Create mental images to deepen understanding with adult assistance; **TEKS K.6.D** Retell texts in ways that maintain meaning; **TEKS K.9.D** Discuss with adult assistance how the author uses words that help the reader visualize; **TEKS K.6.F** Respond using newly acquired vocabulary as appropriate.

Here's the flower I was telling you about. Do you see this ring of bright yellow parts around the flower? Those are called **petals**. [Point to the petals in the picture.] The petals look like brightly colored leaves. The petals are the parts of the flower that grab my attention when I am out buzzing around. Once I see a pretty flower, my favorite thing to do is crawl inside the petals, into the center of the flower.



#### Show image 5A-3: Polly and interior of flower

What's it like to crawl inside a flower like this? [Have students close their eyes and imagine what is described.] Imagine for a minute that you are crawling under the bright yellow blankets of a very comfortable bed. Bright yellow is all around you. Now imagine that you stay under the blankets drinking the

world's tastiest drink through a straw. You are so happy that you wriggle around and get covered with a yellow powder that smells great and feels good against your skin. That's what it's like for me when I visit a flower. How

does Polly feel when she visits a flower? TEKS K.5.D; TEKS K.9.D

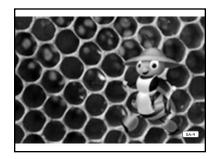
As far as I'm concerned, the world's tastiest drink is called **nectar**, which is a sweet juice that plants make, and the yellow powder that I like to rub up against is called **pollen**. [Have students repeat the words nectar and pollen after you.] I find both nectar and pollen inside flowers, and, frankly, I'm not sure which one I like better!

I visit more than fifty flowers in one outing—sometimes as many as a hundred. I visit these flowers because we bees get our food from flowers. My job is to fly around and find nectar and pollen, which I gather up and take back to my hive. I have a special pouch inside my body that holds nectar, and there are special hairs on my back legs that form a little basket that I brush pollen into. When it's time to go back to my hive, sometimes my load of pollen and nectar weighs half as much as I do! Do you think it is easy or difficult for a bee to take nectar and pollen to its hive? Why? [Pause for students' responses.]

When I get back to the hive, I turn the nectar and pollen over to the worker bees in the hive. They mix the pollen with a little bit of nectar and feed it to the baby bees. Then they fan the rest of the nectar with their wings until most of the water is gone. Nectar with most of the water gone turns into something that both bees and people love.



**TEKS K.5.D** Create mental images to deepen understanding with adult assistance; **TEKS K.9.D** Discuss with adult assistance how the author uses words that help the reader visualize.



#### Show image 5A-4: Polly with honey in hive

Nectar with most of the water removed is called **honey**. Here's the honey in my hive. People use honey to sweeten their food, but we bees use honey for food. We keep it in a bunch of little cubbies that we call the honeycomb.



#### **Show image 5A-5: Polly and cornfield**

I visit flowers to get food, and that's reason enough for me. But it turns out that I am also doing something else besides finding food for myself and the other bees. I am helping the plants reproduce, or make more plants! In order to make a seed that can develop into a new plant, most plants need to mix pollen

from their own flowers with pollen from other plants that are like them. For example, a corn plant needs pollen from another corn plant to allow it to make seeds. When pollen from one corn plant lands on another corn plant, something called **pollination** takes place. *Pollination is when pollen from one flower mixes with the pollen of another flower so the plant can make seeds.* Pollination is really important because, if it doesn't happen, the plant won't be able to make any seeds. If there are no seeds, then there will be no new plants.



#### Show image 5A-6: Polly and pollen

How do plants get pollen from other plants? Plants can't walk around like human beings. And they can't flap their wings and fly like us bees, either. Luckily, the pollen grains themselves are very small. They can be blown from one plant to another by the wind. [Imitate the wind for your students by blowing]

something small and light off of a desk.] So the wind helps pollinate plants so they can make new plants.

But bees, like me, also help pollinate plants! How do my trips from one plant to another help pollinate plants? When I visit a flower and roll around inside, I pick up a lot of pollen. When I fly on to the next flower, I carry some pollen from other flowers with me, and some of it rubs off on the next flower I visit.

#### Support

Remind students that pollen is the yellow powder bees find inside flowers.

#### Challenge

Ask students which they think pollinates more plants—the wind or bees.

#### Support

If students have difficulty responding to questions, reread pertinent lines of the read-aloud and/or refer to specific images.





Speaking and Listening

Offering Opinions

#### **Beginning**

Provide students sentence frames using a small set of learned phrases (e.g., "I think pollination is important because . . .").

#### Intermediate

Provide students sentence frames using an expanded set of learned phrases (e.g., "I think pollination is important because if it did not occur . . . ").

## Advanced/Advanced High

Provide minimal support and guidance for open responses.

ELPS 2.G; ELPS 2.I; ELPS 3.G That's why I am an excellent pollinator of plants, and that is why they call me Polly the Pollinator!

I don't like to brag, but we bees are the most important pollinators in the world! Oh, sure, the wind helps pollinate, and some other insects also carry grains of pollen from one plant to another as they feed. Butterflies do it. So do moths, beetles, and wasps. Some birds, like hummingbirds, are also good pollinators. Bats are good pollinators, too! But no other creature pollinates as many flowers as bees do.

#### **COMPREHENSION QUESTIONS (10 MIN.)**

#### **Show Image Card 1 (Polly and interior of flower)**

- 1. **Literal** Where are the petals in this picture? (Students should identify the petals on the flower.)
- 2. **Inferential** Why do bees visit flowers? (Bees visit flowers because they use nectar and pollen from flowers for food.)
  - Literal What is nectar? (Nectar is the sweet juice made by plants.)
  - **Literal** What is pollen? (*Pollen is the yellow powder made by plants.*)
- 3. **Inferential** How do bees help a plant pollinate, or mix its pollen with the pollen of another plant? (When bees visit another plant, some of the pollen bees carry from the first plant rubs off onto the second plant.)
- 4. **Evaluative** Why is pollination important? What would happen if pollination did not occur? (*Pollination is important because plants need pollen from other plants in order to make seeds. If there are no new seeds, then no new plants can grow.)*



#### Check for Understanding

**Turn and Talk:** Explain the process of pollination. (*Pollen moves from one plant to another plant. It is carried by the wind, bees, other insects, or some types of birds.)* 

#### WORD WORK: POLLINATION (5 MIN.)

- 1. In the read-aloud you heard, "When pollen from one corn plant lands on another corn plant, something called pollination takes place."
- 2. Say the word pollination with me.
- 3. Pollination happens when the pollen from two flowers mix and seeds are made.
- 4. Honeybees help a lot with the pollination of plants.
- 5. What other ways could pollination happen? (Answers may include the wind, moths, beetles, wasps, butterflies, birds, and bats, among others.) Try to use the word pollination when you tell us about it. [Ask two or three students. If necessary, guide and/or rephrase students' responses: "Pollination could also happen when . . ."]
- 6. What's the word we've been talking about?

**Use a Discussion activity for follow-up.** What are the steps involved in pollination? Be sure to use *pollination*, *pollen*, *first*, and *last* in your responses.

#### Challenge

Have students take turns narrating the pollination simulation individually. In the same way that some students are "bees" or "flowers," designate one student or a pair of students to take on the role of narrator.





Speaking and Listening

Exchanging Information and Ideas

#### **Beginning**

Ask students yes/no questions about the pollination process and encourage them to ask their own questions about the pollination process.

#### Intermediate

Encourage students to build on what the previous student has said about the pollination process.

### Advanced/Advanced High

Challenge students to say something more about what the previous student has said about the pollination process.

ELPS 1.E; ELPS 3.G

## Application



**Reading:** Students will work together, taking turns to act out the basic process of pollination.

#### TEKS K.1.D; TEKS K.5.G

#### POLLINATION SIMULATION (20 MIN.)

TEKS K.1.D

- Split students into groups based on two roles: flowers or bees.
- Have the "flower" students stand in a circle, holding scraps of paper or cotton balls to represent pollen.
- Have the "bee" students move around the "flower" students in the circle, pretending to drink nectar and picking up a few scraps of paper or cotton balls from each.
- Then, have the "bee" students give a few scraps of paper or cotton balls to different "flower" students, simulating pollination.
- Repeat this exercise so that every student has an opportunity to play both roles.
- As students take turns completing this role-playing exercise, narrate the pollination simulation with help from students.
  - Discuss and reinforce the process of pollination, using words such as pollen, nectar, flower, and pollination in discussion.

#### **Exit Pass**

Have students individually provide one fact they learned about the process of pollination.

End of Lessor

TEKS K.1.D Work collaboratively with others by following agreed-upon rules for discussion, including taking turns; TEKS K.5.G Evaluate details to determine what is most important with adult assistance.

Knowledge 4 Plants: How Do They Grow?

# 6

#### **PLANTS**

## The Fruits of Polly's Labor

#### PRIMARY FOCUS OF LESSON

#### **Speaking and Listening**

Students will review plant parts and the pollination process.

#### TEKS K.1.A

#### Reading

Students will recognize that they can gain information about a text from its title and then will explain the importance of seeds.

#### TEKS K.5.A; TEKS K.8.D.ii

#### Language

Students will demonstrate an understanding of the Tier 2 word produce.

#### TEKS K.6.F

Students will demonstrate an understanding of the multiple meaning word pit.

#### TEKS K.6.F

#### **Speaking and Listening**

Students will compare and contrast seeds from various fruits.

#### TEKS K.1.A; TEKS K.5.G

#### FORMATIVE ASSESSMENT

#### **Exit Pass**

**Oral** Students will provide a statement explaining why seeds are important.

#### TEKS K.5.G

TEKS K.1.A Listen actively and ask questions to understand information and answer questions using multi-word responses; TEKS K.5.A Establish purpose for reading assigned and self-selected texts with adult assistance; TEKS K.8.D.ii Recognize characteristics and structures of informational text, including: titles and simple graphics to gain information; TEKS K.6.F Respond using newly acquired vocabulary as appropriate; TEKS K.5.G Evaluate details to determine what is most important with adult assistance.

#### LESSON AT A GLANCE

	Grouping	Time	Materials		
Introducing the Read-Aloud					
What Have We Already Learned?	Whole Group	10 min.	☐ different types of fruits (optional)		
Essential Background Information or Terms					
Read-Aloud					
Purpose for Listening	Whole Group	30 min.	☐ Image Cards 2–4 ☐ Flip Book: 6A-1–6A-8		
"The Fruits of Polly's Labor"					
Comprehension Questions					
Word Work: Produce					
This is a good opportunity to take a break.					
Application					
Multiple Meaning Word Activity	Whole Group	20 min.	☐ Poster 3M: Pit (Flip Book)		
Fruits and Seeds			☐ Image Cards 5–12 ☐ paper		
			☐ drawing tools		
Take-Home Material					
Family Letter			☐ Activity Page 6.1		

#### ADVANCE PREPARATION

#### **Introducing the Read-Aloud**

• Bring in different types of fruits to show students.

**Note:** Be sure to check your school's policy regarding food distribution and allergies

#### CORE VOCABULARY

core, n. the center or middle part of something

Example: Juan ate his apple all the way to the core.

Variation(s): cores

produce, v. to make

Example: Apple trees produce apples.

Variation(s): produces, produced, producing

scrumptious, adj. delicious

Example: Dinner last night was so scrumptious that I wish we could eat it

every night.
Variation(s): none

Vocabulary Chart for "The Fruits of Polly's Labor"					
Туре	Tier 3 Domain-Specific Words	Tier 2 General Academic Words	Tier 1 Everyday Speech Words		
Vocabulary		core (corazón) produce (producir) scrumptious			
Multiple Meaning					
Sayings and Phrases	have you ever ? the other way around the fruits of's labor				

# Introducing the Read-Aloud



**Speaking and Listening:** Students will review plant parts and the pollination process.

#### TEKS K.1.A

#### WHAT HAVE WE ALREADY LEARNED? (5 MIN.)

- Remind students that plants have different parts.
- Ask students to name the important parts of plants. (roots, stems, branches, leaves, flowers, and seeds)
- Ask students how the pollination process helps plants make seeds. (The pollination process is the process that allows plants to make seeds. The process is where the pollen from one flower mixes with the pollen of another flower. Without this process, a plant cannot make seeds.)

#### **ESSENTIAL BACKGROUND INFORMATION OR TERMS (5 MIN.)**

- Explain to students that today they are going to learn more about another plant part, the fruit.
- Ask students what the fruit contains. (The fruit is the part of the plant that contains the seed.)
- If possible, show examples of different kinds of fruit, and help students name each kind.



TEKS K.1.A Listen actively and ask questions to understand information and answer questions using multi-word responses.

## Read-Aloud



**Reading:** Students will recognize that they can gain information about a text from its title and then will explain the importance of seeds.

#### TEKS K.5.A; TEKS K.8.D.ii

**Language:** Students will demonstrate an understanding of the Tier 2 word *produce*.

#### TEKS K.6.F

#### **PURPOSE FOR LISTENING**

- Tell students that the title of today's read-aloud is "The Fruits of Polly's Labor." Tell students that a title can offer information about what the text is about. Ask students to think about this title and what it might tell them about
- the text. TEKS K.8.D.ii
  - Explain to students that the fruits of someone's labor are the results of, or what happened because of, someone's hard work.
  - Tell students to listen carefully to find out more about the fruits of Polly's labor and this delicious plant part.

#### "THE FRUITS OF POLLY'S LABOR" (15 MIN.)

TEKS K.8.D.ii

Buzz, buzz! It's Polly the Honeybee again. Last time I told you that I visit flowers to collect nectar and pollen for food. I also told you that I help to pollinate flowers by carrying pollen from one flower to another. What else carries pollen from one flower to another? [The wind, other insects, birds, and some animals can carry pollen from one flower to another.] Today I want to show you some of the results of my hard work. You see, after I pollinate a flower, the plant begins to **produce** seeds produce means to make. Lots of plants also produce a special part to hold the seeds called the fruit.

Come along and I will show you some different kinds of fruit I helped create.



#### Show image 6A-1: Apple tree

Here's an apple tree. Earlier this year, this tree put out <u>blossoms</u>, which is another word for flowers. Apple blossoms are full of delicious nectar, which makes me especially love to buzz over and roll around in those blossoms. The nectar was **scrumptious**! Scrumptious is another word for delicious.

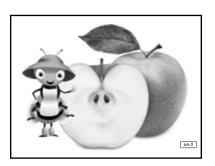
**TEKS K.5.A** Establish purpose for reading assigned and self-selected texts with adult assistance; **TEKS K.8.D.ii** Recognize characteristics and structures of informational text, including: titles and simple graphics to gain information; **TEKS K.6.F** Respond using newly acquired vocabulary as appropriate.

#### Support

Remind students that when pollen is carried from one flower to another, the process is called pollination.

But, look! It was good for the tree, too. Remember that when bees visit the flowers of plants, they carry pollen from one flower to another. This apple tree is now full of apples because my honeybee friends and I did such a good job pollinating the blossoms. The apples are fruit, and inside each apple are seeds that can grow into new apple trees.

The apples took weeks to grow. They were small at first, but then they got bigger and bigger. Now they are almost ripe. When the apples are ripe, they will drop off the tree so the seeds can fall to the ground and start growing into a new apple tree. Or, a person may come and pick the apple and eat it.



#### Show image 6A-2: Sliced apple

This is an image of an apple that has been sliced, or cut, in half. Here's an image of an apple that has been picked off the tree and sliced open. You can see the seeds. The seeds are the dark brown things in the center part, called the **core**. Some people like to cut the seeds out of the apple before they eat it. Some

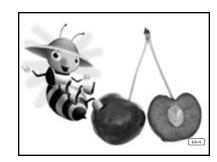
people also cut off the peel on the outside of the apple.



## **Show image 6A-3: Cherry tree branch with cherries**

Here's another tree I pollinated. It's called a cherry tree. Some time ago, this tree produced lovely pink blossoms, or flowers. Let me tell you—there's almost nothing more beautiful than a cherry tree in full bloom. My bee buddies and I spent a lot of time visiting this

tree when the blossoms were out, and look what's happened since then! The flowers are all gone now, but that's okay because they did what they were supposed to do. Now the tree has begun to make seeds and fruit.



#### **Show image 6A-4: Cherries**

Have you ever bitten into a fresh cherry? If you have, your teeth have probably bumped into a cherry seed. Inside a cherry is a big, hard thing called a cherry <u>pit</u>. The word pit means the hard part in the middle of some fruits that

#### Support

Explain that the word pit can have other meanings. The word pit also means a hole. For additional support, please refer to Poster 3M in the Flip Book for multiple meanings of pit

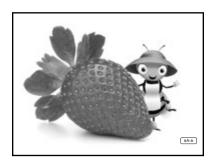
contains the seed. The seed of the cherry is actually inside the cherry pit. The tasty part of the cherry that people eat is the soft fruit around the pit. To people, that seems like the important part of a cherry. But, to the plant, the most important part is the seed that can grow into a new plant. Why do you think the seed is the most important part of the plant?



#### **Show image 6A-5: Strawberry plant**

Now here's a different kind of plant. This is a strawberry plant. It put out flowers a while ago, and my honey-making pals and I visited those flowers as well. Who are Polly's honey-making pals? Now you can see that the plant is making seeds and fruit. We must have pollinated it! The fruits on this plant are called

strawberries. You saw how the seeds of the apple and the cherry tree grow inside the fruit. With the strawberry it's the other way around. The other way around means the opposite. What is the opposite of inside the fruit? [Outside the fruit!]



#### **Show image 6A-6: Strawberry**

Look at this ripe strawberry. You can see the seeds all over the outside of the strawberry. The seeds on this strawberry are so small that people can eat them along with the fruit.



#### **Show image 6A-7: Watermelon**

Here's one last plant. It's a watermelon plant. This watermelon plant bloomed a few weeks ago. I visited its flowers and found the nectar to be quite delicious. I brought some back to my hive, where the worker bees made it into honey. But, look! The watermelon plant has been busy making something, too! This big

green thing is the fruit of the watermelon plant. It's called a watermelon.

#### Challenge

Why do you think Polly says that the strawberry plant is a "different kind of plant"?



#### **Show image 6A-8: Watermelon slice**

The green part on the outside of the watermelon is called the rind. The seeds of the watermelon are on the inside of the rind, along with some red, juicy fruit that people like to eat. Here's a watermelon that's been sliced open. Can you see the black and white seeds inside? People spit out the seeds when they

are eating the red, squishy part of the watermelon.

Well, that about concludes my little tour. I'm very proud of the pollinating work I did this year, and hope you will think of me as you are munching on the fruits of my labor! *Delicious fruit is truly the result of Polly's hard work carrying pollen from flower to flower!* 

### Challenge

Ask students what they think the phrase the fruit of \_\_\_\_\_'s labor means.

#### Check for Understanding

**Recall:** What is the seed? (The seed is the part of the plant that can grow into a new plant.)

#### Support

If students have difficulty responding to questions, reread pertinent lines of the read-aloud and/or refer to specific images.

#### **COMPREHENSION QUESTIONS (10 MIN.)**

- 1. **Literal** What happens after pollination occurs? (After pollination, a plant begins to produce seeds. Lots of plants also produce a special part to hold the seeds called fruit.)
- 2. **Literal** What is the fruit? (The special part of a plant that holds seeds is the fruit.)

#### Show Image Cards 3 (apple/apple seeds) and 4 (cherry/cherry pits)

3. **Evaluative** How are cherries and their seeds the same as or different from apples and their seeds? (*Cherry seeds are inside cherry pits, while apple seeds are in the center, or the core, of the apple. Both cherries and apples have seeds that are inside the fruit.)* 

## Show Image Cards 2 (strawberry/strawberry seeds) and 3 (apple/apple seeds)

4. **Evaluative** *Think Pair Share:* How are strawberry seeds different from apple seeds? (*Strawberry seeds are smaller and lighter in color than apple seeds.* 

#### Image Cards 2–4



Strawberry seeds are on the outside of the fruit and apple seeds are on the inside of the fruit.)

#### WORD WORK: PRODUCE (5 MIN.)

- 1. In the read-aloud you heard, "You see, after I pollinate a flower, the plant begins to produce seeds."
- 2. Say the word produce with me.
- 3. Produce means to make.
- 4. After several hours in the kitchen, we were able to produce a delicious pie.
- 5. What are other things that can be produced or that produce something? Try to use the word *produce* when you tell us about it. [Ask two or three students. If necessary, guide and/or rephrase students' responses: "\_\_\_\_\_ can produce . . ."]
- 6. What's the word we've been talking about?

**Use a Sharing activity for follow-up.** Share with the class what different plants might produce. Be sure to begin your responses with, "A \_\_\_\_\_ would produce . . ."



## Speaking and Listening

#### Offering Opinions

#### **Beginning**

Provide students sentence frames using a small set of learned phrases (e.g., "I think strawberry seeds are different from apple seeds because . . .").

#### Intermediate

Provide students sentence frames using an expanded set of learned phrases (e.g., "Strawberry seeds are different from apple seeds because strawberry seeds are smaller in size . . .")

## Advanced/Advanced High

Provide minimal support and guidance for open responses.

ELPS 1.E; ELPS 3.G

## Application



Flip Book Poster 3M



ENGLISH LANGUAGE LEARNERS



**Analyzing Language** 

#### Beginning

Ask questions that students can answer by pointing to the correct image on Poster 3M (e.g., "Which image shows the hard part in the middle of a fruit that contains seeds?").

#### Intermediate

Ask students to provide examples of items related to each meaning of *pit* (e.g., "What are examples of fruits that have pits?").

### Advanced/Advanced High

Have students use each meaning correctly in context.

ELPS 1.E; ELPS 2.I; ELPS 4.F **Language:** Students will demonstrate an understanding of the multiple meaning word *pit*.

#### TEKS K.6.F

**Speaking and Listening:** Students will compare and contrast seeds from various fruits.

#### TEKS K.1.A; TEKS K.5.G

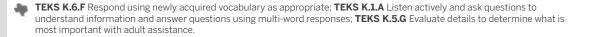
#### MULTIPLE MEANING WORD ACTIVITY (5 MIN.)

#### **Definition Detective: Pit**

- Remind students that in the read-aloud they heard, "Inside a cherry is a big hard thing called a cherry pit."
- Tell students to work with their neighbor to think of as many meanings for *pit*, or ways you can use the word *pit*, as they can.

#### **Refer to Poster 3M**

- Ask students which picture on the poster shows how the word *pit* is used in the lesson.
- Have students hold up one, two, or three fingers to indicate which image on the poster shows this meaning.
- Explain that pit can also mean other things. Pit can mean a hole in the ground.
- Have students hold up one, two, or three fingers to indicate which image on the poster shows this meaning. (2)
- Explain that pit can also mean to compete against each other, like in a race.
- Have students hold up one, two, or three fingers to indicate which image on the poster shows this meaning. (3)
- Now have students quiz their neighbors on the different meanings of *pit*. For example, a students could say, "I ate my peach all the way down to the pit." Then, the neighbor should hold up one finger to show that their partner meant that kind of pit.



#### FRUITS AND SEEDS (15 MIN.)

#### Show Image Cards 5–12 (various fruits and seeds)

- Using the Image Cards, ask students to match the fruits with their seeds.
- As students match the fruits with their seeds, discuss how the fruits are similar and different from one another, and how the seeds are similar and different from one another.
- Ask questions to promote discussion:
  - Does this fruit have multiple seeds or just one seed?
  - Are the seeds on the inside or the outside of the fruit?
  - Are all of the fruits the same color?
- Record students' answers on the board/chart paper.



#### Exit Pass

Have students provide a statement answering the question: Why are seeds important?

End of Lesson

## Take-Home Material

#### **FAMILY LETTER**

• Send home Activity Page 6.1.

Image Cards 5–12



Activity Page 6.1



7

#### **PLANTS**

## Johnny Appleseed

#### PRIMARY FOCUS OF LESSON

#### **Speaking and Listening**

Students will identify a tall tale.

TEKS K.1.A; TEKS K.8.A

#### Reading

Students will identify the key idea of Johnny Appleseed's story.

TEKS K.3.B; TEKS K.5.A; TEKS K.5.B; TEKS K.7.B; TEKS K.7.C

#### Language

Students will demonstrate an understanding of the Tier 2 word eventually.

TEKS K.6.F

#### Reading

Students will retell the story of Johnny Appleseed.

TEKS K.6.D

#### Language

Students will use words that name sequence. TEKS K.3.C

#### **FORMATIVE ASSESSMENT**

#### **Exit Pass**

**Drawing** Students will draw pictures illustrating the events of Johnny Appleseed's story.

TEKS K.6.D

TEKS K.1.A Listen actively and ask questions to understand information and answer questions using multi-word responses; TEKS K.8.A Demonstrate knowledge of distinguishing characteristics of well-known children's literature, such as folktales, fables, fairy tales, and nursery rhymes; TEKS K.3.B Use illustrations and texts the student is able to read or hear to learn or clarify word meanings; TEKS K.5.A Establish purpose for reading assigned and self-selected texts with adult assistance; TEKS K.5.B Generate questions about a text before, during, and after reading to deepen understanding and gain information with adult assistance; TEKS K.7.B Identify and describe the main character(s); TEKS K.7.C Identify the elements of plot development including the main events, the problem, and the resolution for texts read aloud with adult assistance; TEKS K.6.F Respond using newly acquired vocabulary as appropriate; TEKS K.6.D Retell texts in ways that maintain meaning; TEKS K.3.C Identify and use words that name actions; directions; positions; sequences; categories such as colors, shapes, and textures; and locations.

#### LESSON AT A GLANCE

	Grouping	Time	Materials	
Introducing the Read-Aloud				
What Have We Already Learned?	Whole Group	10 min.		
Essential Background Information or Terms				
Read-Aloud				
Purpose for Listening	Whole Group	30 min.	☐ U.S. map (optional)	
#1.1 A 1 1"			☐ Flip Book: 7A-1—7A-7	
"Johnny Appleseed"				
Comprehension Questions	-			
Word Work: Eventually				
This is a good opportunity to take a break.				
Application				
Image Review	Whole Group	20 min.	☐ Flip Book: 7A-1–7A-7	
			☐ paper folded into four sections	
			☐ drawing tools	

#### ADVANCE PREPARATION

#### **Read-Aloud**

• You may want to prepare a U.S. map to trace Johnny Appleseed's path for students.

#### **Application**

• Fold students' paper so they have four sections in which to draw different pictures.

#### **CORE VOCABULARY**

eventually, adv. at some later time; in the end

Example: After weeks of practice, the boy eventually mastered his

piano piece.

Variation(s): none

**hero, n.** a very brave person

Example: The firefighter who saved the cat stuck in the tree was a hero.

Variation(s): heroes

**orchards, n.** areas of land where fruit trees are grown Example: They were picking apples in the orchards.

Variation(s): orchard

Vocabulary Chart for "Johnny Appleseed"					
Туре	Tier 3 Domain-Specific Words	Tier 2 General Academic Words	Tier 1 Everyday Speech Words		
Vocabulary	orchards	eventually (eventualmente) hero (héroe)			
Multiple Meaning					
Sayings and Phrases	across the country grew up walked around barefoot prosperous future cared about				

## **Lesson 7: Johnny Appleseed**

## Introducing the Read-Aloud



**Speaking and Listening:** Students will identify a tall tale.

TEKS K.1.A; TEKS K.8.A

#### WHAT HAVE WE ALREADY LEARNED? (5 MIN.)

- Discuss with students what they remember about seeds, blossoms or flowers, and fruits. You may wish to prompt them with the following questions:
  - The life cycle of a plant begins with what part of the plant? (seed)
  - What is another word for blossom? (flower)
  - What do we call the special plant part that holds seeds? (the fruit)
  - What are some of the fruits that Polly talked about? (apples, cherries, strawberries, and watermelons)

#### ESSENTIAL BACKGROUND INFORMATION OR TERMS (5 MIN.)

- Tell students they are about to hear a tall tale about a famous man named Johnny Appleseed, who lived long ago.
- Explain that a tall tale is a story that stretches the truth.
- Ask students if they can guess, from his name, what Johnny Appleseed's favorite fruit was.

## Support

Explain that if something "stretches the truth," then it is not completely true, but it's also not completely fiction. It exaggerates real events.



#### Check for Understanding

**Recall:** What is a humorous story that stretches the truth called? (a tall tale)

**TEKS K.1.A** Listen actively and ask questions to understand information and answer questions using multi-word responses; TEKS K.8.A Demonstrate knowledge of distinguishing characteristics of well-known children's literature, such as folktales, fables, fairy tales, and nursery rhymes.

Lesson 7 Johnny Appleseed

#### **Lesson 7: Johnny Appleseed**

## Read-Aloud



**Reading:** Students will identify the key idea of Johnny Appleseed's story.

TEKS K.3.B; TEKS K.5.A; TEKS K.5.B; TEKS K.7.B; TEKS K.7.C

**Language:** Students will demonstrate an understanding of the Tier 2 word eventually.

TEKS K.6.F

#### PURPOSE FOR LISTENING

- Tell students to listen carefully to find out why Johnny Appleseed is important.
- Ask students if, before they start to read, they have any questions about Johnny Appleseed. Tell them that they may find answers to those questions in the reading, and they may have more questions after they finish reading. Remind students that asking questions and finding answers helps readers
- understand what they read. TEKS K.5.B

#### "JOHNNY APPLESEED" (15 MIN.)



#### **Show image 7A-1: Johnny Appleseed**

A long time ago in the rolling hills, there lived a man called Johnny Appleseed. Johnny Appleseed did not have a home, but instead wandered across the country from Massachusetts to Pennsylvania to Ohio to Indiana to Illinois. Wander means to travel from place to place without knowing exactly where you are going next. Johnny wasn't born with

the name Johnny Appleseed, but he got that name as he moved from one small town to the next. Listen to hear how Johnny got that name and why he became a **hero** to many people. A hero is a very brave person.



#### **Show image 7A-2: Johnny Appleseed in the woods**

Johnny was born in Massachusetts with the name John Chapman. When Johnny grew up, he decided to travel across the country. People could tell from Johnny's clothing that he was really very poor. His clothes were shabby, and he walked around



Support

Have students trace the

path Johnny Appleseed

wandered on a map.

**TEKS K.3.B** Use illustrations and texts the student is able to read or hear to learn or clarify word meanings; **TEKS K.5.A** Establish purpose for reading assigned and self-selected texts with adult assistance; **TEKS K.5.B** Generate questions about a text before, during, and after reading to deepen understanding and gain information with adult assistance; **TEKS K.7.B** Identify and describe the main character(s); **TEKS K.7.C** Identify the elements of plot development including the main events, the problem, and the resolution for texts read aloud with adult assistance; **TEKS K.6.F** Respond using newly acquired vocabulary as appropriate.

barefoot—even in the winter. When something is shabby, it is very old and torn. To walk around barefoot means to walk around wearing nothing on your feet. His hat was so threadbare that you could see his hair beneath it. But despite his loneliness and poverty, Johnny had a brave heart. Even though Johnny was usually alone and very poor, he was happy and brave. He believed in the power of love. He loved all the people and all the animals he met along the way. In fact, Johnny often thought to himself that he loved all the people and all the animals in the world even though he had never met them.



## Show image 7A-3: Johnny Appleseed playing violin

The people Johnny met along the way enjoyed his company. They would often invite him to share in a simple meal. Johnny would accept the invitation with a smile. After the meal he would take out the one possession he owned that was worth anything—his violin. [Point to

the violin in the image.] Then he would play for the people who had been kind to him. Sometimes his music was happy, and sometimes it was sad. People loved to hear Johnny play. Whether his music was happy or sad, they said it soothed the soul and made them feel happier.



## Show image 7A-4: Johnny Appleseed planting apple seeds

Johnny lived most of his adult life this way. He wandered from place to place and survived as best he could. You might think that Johnny left no mark upon the land, or no great memory of his existence once he had passed away. This means that you might think Johnny was not

an important person and that people might forget about him. After all, how could he have, as he was just a poor old man who wandered from place to place? But Johnny did indeed leave something of himself behind: something quite extraordinary or amazing and something that would give him the name Johnny Appleseed.

You see, as he traveled across the country from town to town, and from farm to farm, he collected apple seeds. The apple seeds came from the apples kind strangers gave him to eat along the way. Johnny saved the seeds and planted them in the rich earth. He planted them here, there, and everywhere. What happens when you plant seeds?

#### Support

To soothe the soul means to comfort.



## Show image 7A-5: Apple trees dotting the landscape

When wintertime came and the earth was frozen, he saved the seeds in his pockets as if they were precious diamonds. Then, when springtime came again, he planted the seeds as he moved from place to place. Johnny hoped that one day **orchards**, or places where

fruit trees grow, would **eventually** grow up from the rich soil and feed all the people and animals he loved so much. When something happens eventually, it does not happen right away, but happens after some time has passed. Johnny did this until his tired old body could plant no more.

However, what Johnny hoped for came to pass. The apple seeds took root and young saplings began to grow. As the years went by, beautiful apple trees dotted the landscape. Apple orchards appeared like an oasis on the wide-open prairies. An oasis is a nice and comfortable place to be. The apple trees made the land look very good and pleasant.



## Show image 7A-6: Farmhouses dotting the landscape

Eventually, more and more people began to move West. Wagons full of hopeful people rolled across the land. Later, the railroad brought even more hopeful people. All of these people were searching for new places to make a home.

Incredibly, many people chose to build their homes near the apple trees and orchards that Johnny had planted. The sight of the trees gave people hope of a fruitful and prosperous future. Prosperous means successful. Farm houses, and then towns, were built near the trees that Johnny had planted. He became a hero to all those who loved the apple trees as much as Johnny did, and they began to call John Chapman "Johnny Appleseed".



## Show image 7A-7: Kids playing around an apple tree

As the years went by, people harvested the apples from the trees Johnny had planted, and stored them away for the winter months. They made pies, apple butter, and jam. Children played beneath the branches of the apple trees or sat in the cooling shade. These things

happened because Johnny Appleseed had cared about all the people of the world, whether he knew them or not.

#### **COMPREHENSION QUESTIONS (10 MIN.)**

- 1. **Literal** Where did Johnny Appleseed get apple seeds for planting? (*The apple seeds came from the apples kind people gave him to eat.*)
- 2. **Inferential** How did John Chapman get the nickname Johnny Appleseed? (John Chapman was called Johnny Appleseed because he loved apple trees and planted apple seeds.)
- 3. **Literal** What was the beginning of the life cycle of the trees planted by Johnny Appleseed? (*The beginning of the life cycle of the trees planted by Johnny Appleseed was the apple seed.)*
- 4. **Inferential** How did the apple seeds that Johnny planted help people? (Answers may vary, but may include that the seeds grew into trees that gave people hope for a fruitful and prosperous future; the trees also gave them food to eat, a cool place to rest, a place to play, etc.)



#### Check for Understanding

**Turn and Talk:** Why is the story of Johnny Appleseed important? (Answers may vary, but may include that the story of Johnny Appleseed is important because he planted apple seeds to help other people even though he didn't know them; he did something small that ended up helping many people.)

#### Challenge

Why might people call Johnny a hero? How did planting apple seeds help people?

#### Support

If students have difficulty responding to questions, reread pertinent lines of the read-aloud and/or refer to specific images.



## Speaking and Listening

#### Offering Opinions

#### **Beginning**

Provide students sentence frames using a small set of learned phrases (e.g., "I think these apple seeds helped people by . . .").

#### Intermediate

Provide students sentence frames using an expanded set of learned phrases (e.g., "I think the apple seeds that Johnny Appleseed planted helped people by . . .").

### Advanced/Advanced High

Provide minimal support and guidance for open responses.

ELPS 1.E; ELPS 2.G; ELPS 3.G

#### WORD WORK: EVENTUALLY (5 MIN.)

- 1. In the read-aloud you heard, "Johnny hoped that one day orchards, or places where fruit trees grow, would eventually grow up from the rich soil and feed all the people and animals he loved so much."
- 2. Say the word eventually with me.
- 3. When something happens eventually, it does not happen right away; it happens after some time has passed.
- 4. Chance asked his grandfather when they were going to get to the park, and his grandfather said that they would get there eventually.
- 5. What are some things that might not happen right away but might happen eventually? Try to use the word *eventually* when you tell us about them. [Ask two or three students. If necessary, guide and/or rephrase the students' responses: "\_\_\_\_\_ might happen eventually . . ."]
- 6. What's the word we've been talking about?

**Use a Making Choices activity for follow-up.** I am going to say several sentences. If the sentences use *eventually* correctly, give me a thumbs up. If they do not use *eventually* correctly, give me a thumbs down.

- We got lost on the way to the museum, but we will get there eventually. (thumbs up)
- It snowed last week, so we eventually didn't have school. (thumbs down)
- I couldn't have my birthday party because I was sick, but I'll have it eventually. (thumbs up)
- Yesterday, we received a package in the mail eventually. (thumbs down)
- River's mom said dinner was ready, so we should eat it eventually while it's hot. (thumbs down)

## Application



**Reading:** Students will retell the story of Johnny Appleseed.

TEKS K.6.D



#### **IMAGE REVIEW**

#### **Show images 7A-1 through 7A-7**

- Ask students to explain what is happening in each picture.
- Help students create a continuous retelling of the narrative that follows the life and adventures of Johnny Appleseed.
- As students discuss each image, remember to repeat and expand upon each response using richer and more complex language, including, if possible, any read-aloud vocabulary.
- Also encourage the use of temporal vocabulary to help in introducing and
- sequencing events and ideas: first, then, next, later, finally, etc. TEKS K.3.C
  - As students dictate the events of the narrative, you may want to record the students' story on the board/chart paper so that you can reread their version to them.



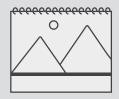
#### **Exit Pass**

Have students draw—in order—four different events from the story. Each event should be depicted in its own section on the four-sectioned paper.

End of Lesso

**TEKS K.6.D** Retell texts in ways that maintain meaning; **TEKS K.3.C** Identify and use words that name actions; directions; positions; sequences; categories such as colors, shapes, and textures; and locations.

### Flip Book 7A-1–7A-7





## Speaking and Listening

Exchanging Information and Ideas

#### **Beginning**

Ask students yes/no questions about the story of Johnny Appleseed and encourage them to ask their own questions about the story.

#### Intermediate

Encourage students to build on what the previous student said about the story of Johnny Appleseed.

## Advanced/Advanced High

Challenge students to say something more about what the previous student has said about the story of Johnny Appleseed. Provide guidance for open responses.

#### ELPS 3.C; ELPS 3.G

#### Challenge

Have students record significant words or phrases on the board/chart paper.



#### **PLANTS**

## Deciduous Trees

#### PRIMARY FOCUS OF LESSON

#### Reading

Students will identify deciduous trees and evergreen trees.

TEKS K.8.D.ii

Students will describe seasonal (yearly) changes to deciduous trees.

TEKS K.5.A; TEKS K.5.F; TEKS K.8.D.iii

#### Language

Students will demonstrate an understanding of the Tier 2 word bare.

TEKS K.6.F

#### Writing

Students will illustrate the seasonal (yearly) changes to deciduous trees.

TEKS K.6.E; TEKS K.11.B

#### **FORMATIVE ASSESSMENT**

#### **Activity Page 8.1**

**Drawing the Read-Aloud** Students will illustrate the seasonal (yearly) changes to deciduous trees.

TEKS K.6.E; TEKS K.11.B

TEKS K.8.D.ii Recognize characteristics and structures of informational text, including: titles and simple graphics to gain information; TEKS K.5.A Establish purpose for reading assigned and self-selected texts with adult assistance; TEKS K.5.F Make inferences and use evidence to support understanding with adult assistance; TEKS K.8.D.iii Recognize characteristics and structures of informational text, including the steps in a sequence with adult assistance; TEKS K.6.F Respond using newly acquired vocabulary as appropriate; TEKS K.6.E Interact with sources in meaningful ways such as illustrating or writing; TEKS K.11.B Dictate or compose informational texts.

#### LESSON AT A GLANCE

	Grouping	Time	Materials	
Introducing the Read-Aloud				
Essential Background Information or Terms	Whole Group	10 min.	☐ Flip Book: 8A-1	
Read-Aloud				
Purpose for Listening	Whole Group	30 min.	☐ Flip Book: 8A-1–8A-7	
"Deciduous Trees"				
Comprehension Questions				
Word Work: Bare				
This is	This is a good opportunity to take a break.			
Application				
Vocabulary Instructional Activity	Independent	20 min.	☐ Activity Page 8.1	
Drawing the Read-Aloud			☐ drawing tools	

#### ADVANCE PREPARATION

#### **Universal Access**

- Bring in pictures of different kinds of deciduous and evergreen trees so that students can see the differences between them.
- Bring in leaves or small branches of deciduous and evergreen trees.
- Take students on a walk outdoors and have them identify deciduous and evergreen trees.

#### **CORE VOCABULARY**

bare, adj. without any covering

Example: He walked around the house in bare feet.

Variation(s): barer, barest

deciduous, adj. losing leaves every year

Example: A deciduous tree starts losing its leaves in autumn.

Variation(s): none

dormant, adj. not active; asleep

Example: The tree was dormant during the long winter.

Variation(s): none

**habitat, n.** a place where an animal or plant lives that has food, water, and shelter

Example: A plant that needs a lot of water lives in a habitat where there is a

lot of rain.

Variation(s): habitats

**sheds, v.** drops, loses, or separates from something

Example: Our dog sheds hair from his coat wherever he lies down.

Variation(s): shed, shedding

Vocabulary Chart for "Deciduous Trees"					
Туре	Tier 3 Domain-Specific Words	Tier 2 General Academic Words	Tier 1 Everyday Speech Words		
Vocabulary	deciduous dormant habitat (hábitat)	bare			
Multiple Meaning	sheds				
Sayings and Phrases	either or				

**Lesson 8: Deciduous Trees** 

# Introducing the Read-Aloud



**Reading:** Students will identify deciduous trees and evergreen trees.

TEKS K.8.D.ii

#### **ESSENTIAL BACKGROUND INFORMATION OR TERMS**

#### **Show image 8A-1: Winter forest**

- Ask students to describe what they see in the picture.
- Tell students that this is a picture of a forest.
- Explain that forests are made up of many trees and other plants.
- Ask students to describe the trees in the picture. You may wish to prompt discussion with the following questions:
  - What time of year is it?
  - What living things do you see?
  - How are these trees different from one another?
- Explain that there are two types of trees in this picture: deciduous
   [dis\*ij\*\*\*\* \*\* \*\* \*\*] and evergreen. Point to each type of tree as you describe it.
- Tell students that the evergreen trees in this picture still have their leaves, even in the winter.
  - Explain that a good way to remember these trees is by the word *ever* in their name. *Ever* means always. So an evergreen tree is always green.
  - Ask students if they can see the green in the picture.
- Explain that deciduous trees do not keep their leaves in the winter. *Deciduous* means that the trees lose, or shed, their leaves in the fall and grow them again in the spring.

Flip Book 8A-1



ф

**TEKS K.8.D.ii** Recognize characteristics and structures of informational text, including: titles and simple graphics to gain information.



#### Check for Understanding

**Point and Say It:** Point to different trees in the picture and have students identify each tree as deciduous or evergreen.

#### **Lesson 8: Deciduous Trees**

## Read-Aloud



**Reading:** Students will describe seasonal (yearly) changes to deciduous trees.

#### TEKS K.5.A; TEKS K.5.F; TEKS K.8.D.iii

**Language:** Students will demonstrate an understanding of the Tier 2 word bare.

#### TEKS K.6.F

#### **PURPOSE FOR LISTENING**

- Tell students the main topic, or central idea, of today's lesson is deciduous trees.
- Tell them to listen carefully to find out what happens to deciduous trees throughout the year.

#### "DECIDUOUS TREES" (15 MIN.)



#### **Show image 8A-1: Winter forest**

There are many different kinds of plants in the world. Although each is unique and special in its own way, most plants found on land are either **deciduous** [dis\*ij\*\*e\*w es] or evergreen. [Point again to each type of tree in the picture.] Remember, a deciduous plant is one that loses its leaves; an evergreen plant is

one that does not lose its leaves and is always green.



#### **Show image 8A-2: Apple tree in winter**

This is a picture of an apple tree in the winter. An apple tree **sheds** its leaves every fall, so it is a deciduous tree. The word sheds means loses. Deciduous is a tricky word to say because it has four parts. Let's say the word together. [Clap out the four syllables of deciduous as you say them. Have students clap as they say the

word with you.] The four parts of the word deciduous can actually help you remember that deciduous trees change in each of the four seasons. Seasons happen in a cycle, or circle, over and over again: spring, summer, fall, and winter. Let's start with spring, when new things start growing.



**TEKS K.5.A** Establish purpose for reading assigned and self-selected texts with adult assistance; **TEKS K.5.F** Make inferences and use evidence to support understanding with adult assistance; **TEKS K.8.D.iii** Recognize characteristics and structures of informational text, including the steps in a sequence with adult assistance; **TEKS K.6.F** Respond using newly acquired vocabulary as appropriate.

#### Support

Explain that the word sheds can have other meanings. The word sheds also means small buildings used to store things. For additional support, please refer to Poster 4M in the Flip Book for multiple meanings of sheds.

#### Support

Remind students that the pollination process is when pollen is spread from flower to flower.



#### **Show image 8A-3: Apple tree in spring**

In the spring, the apple tree produces new leaves and apple blossoms, or flowers. Remember Polly the Honeybee? This is the time of year when she starts taking nectar from the inside of flowers. When she flies from flower to flower, she helps spread the pollen that is going to help the apples grow.



#### **Show image 8A-4: Apple tree in summer**

In the summer, the apple tree grows many more green leaves. Apples begin to grow out of the blossoms.



#### Show image 8A-5: Apple tree in fall

In the fall, the apples of the apple tree are fully grown and ready to pick. The leaves on the apple tree start to change to red and yellow, and then they fall off onto the ground. Over time, the leaves on the ground will break down into tiny pieces and become nutrients in the soil. What are nutrients?



#### **Show image 8A-6: Apple tree in winter**

Here is the apple tree again in winter.
Remember, the seasons repeat in a cycle, or circle, over and over again, every year. This apple tree has **bare** branches again, meaning they are empty and without covering or leaves. That is because plants do not get as much sunlight during the winter as they do during

the spring and summer. In the apple tree's **habitat**, the weather becomes cold, and there is less light from the sun. A habitat is a place where an animal or plant lives. With less light from the sun, the tree's leaves cannot make food through photosynthesis. Because the apple tree cannot make food during the winter, it must conserve, or save, its energy. It does this by becoming **dormant**. To become dormant means to be asleep and not active. [Have

students act like they are sleeping. Explain that when they sleep, they are not able to do anything.] When the apple tree goes dormant, it stops making leaves, blossoms, and apples, and its branches become bare.



## Show image 8A-7: Apple tree in the four seasons

[Point to each season as you review.]
This image shows an apple tree in all four seasons. Remember, the apple tree is a deciduous tree because it loses its leaves every year. In the spring, an apple tree is nice to look at with its white blossoms. In the

summer, you can climb its branches, sit under the shade of its large green leaves, and admire the apples as they grow out of the blossoms. In the fall, you can pick the apple tree's fruit and watch its leaves change colors before falling off. In the winter, you can play in the snow under its bare branches.

Although trees are special to us in many ways, it is important to remember that trees are also very important in nature. Trees—more than any other plants—help keep the air clean and safe to breathe, which you will learn more about later. They also provide food and homes for countless animals. So, next time you see a big tree, wrap your arms around it and give it a big hug, just to show you understand how important it is.



#### Check for Understanding

**One-Word Answer:** Read the following statements and have students answer with the correct season:

- A deciduous tree produces new leaves and blossoms. (spring)
- An apple tree begin to produce apples. (summer)
- A deciduous tree's leaves fall off. (fall)
- A deciduous tree has bare branches. (winter)

#### Support

If students have difficulty responding to questions, reread pertinent lines of the read-aloud and/or refer to specific images.





Speaking and Listening

Exchanging Information and Ideas

#### **Beginning**

Ask students yes/ no questions about deciduous plants and encourage them to ask their own questions about them.

#### Intermediate

Encourage students to build on what the previous student said about deciduous plants.

## Advanced/Advanced High

Challenge students to say something more about what the previous student has said about deciduous plants.

> ELPS 1.E; ELPS 2.G; ELPS 3.G

#### **COMPREHENSION QUESTIONS (10 MIN.)**

- 1. **Literal** What are deciduous plants? (Deciduous plants are plants that lose their leaves.)
- 2. **Inferential** How do deciduous plants change throughout the year? For example, how does an apple tree change throughout the year? (A deciduous plant, such as an apple tree, produces new leaves and blossoms in the spring; an apple tree begins to produce apples in the summer; the leaves change and fall off in the fall; it has bare branches and becomes dormant in the winter.)
  - **Literal** When do deciduous plants start to lose their leaves? (*Deciduous* plants start to lose their leaves in the fall.)
- 3. **Inferential** Why are deciduous plants bare in the winter? (*Deciduous plants* are bare in the winter because they do not get enough sunlight to make food.)
- 4. **Evaluative** Think Pair Share: How can people enjoy apple trees during the different seasons? (Answers may vary, but should reflect an understanding of the different seasons of the apple tree.)

#### WORD WORK: BARE (5 MIN.)

- 1. In the read-aloud you heard, "This apple tree has bare branches again, meaning that they are empty and without covering or leaves."
- 2. Say the word bare with me.
- 3. If something is bare, it is not covered.
- 4. We might talk about parts of our body being bare, such as going barefoot. We might also talk about objects being bare, such as cupboards that don't have anything inside them.
- 5. Can you think of some things that you might describe as being bare? Try to use the word *bare* when you tell us about it. [Ask two or three students. If necessary, guide and/or rephrase the students' responses: "The \_\_\_\_\_ is bare."]
- 6. What's the word we've been talking about?

**Use a Making Choices activity for follow-up.** I am going to read some sentences. If I say something that is bare, say, "\_\_\_\_\_ is bare." If I say something that is not bare, say, "\_\_\_\_\_ is not bare." Remember to answer in complete sentences.

 The branches of the tree are covered with leaves. (The branches of the tree are not bare.)

- My hands are cold because they are not covered. (My hands are bare.)
- There is nothing on my desk. (My desk is bare.)
- The ground is covered with acorns. (The ground is not bare.)
- My grandfather has no hat on his head. (My grandfather's head is bare.)

#### **Lesson 8: Deciduous Trees**

## Application



Writing: Students will illustrate the seasonal (yearly) changes to deciduous trees.

#### TEKS K.6.E; TEKS K.11.B

#### **VOCABULARY INSTRUCTIONAL ACTIVITY (5 MIN.)**

#### Year

- Remind students that in the read-aloud they heard, "An apple tree sheds, or loses, its leaves every year, so it is a deciduous tree."
- Have students say the word year aloud with you.
- Explain that a year is one way we measure time. There are four seasons in a year: spring, summer, fall, and winter.
- Provide an example sentence using year:
  - On my birthday, I am one year older. This year, I will turn six years old.
- Ask students if there is something they do every year. Have them try to use the word *year* when they tell you about it. Ask two or three students. If necessary, guide and/or rephrase the students' responses: "Every year, I..."
- Ask students to repeat the word you've been talking about aloud.
- Have students share with their neighbor something that has happened to them so far this school year. Make sure they begin their responses with, "So far this school year, I have . . ."

#### DRAWING THE READ-ALOUD (15 MIN.)

#### **TEKS K.11.B**

- Ask students to think about how a deciduous apple tree looks in each season: spring, summer, fall, and winter.
- Ask students to think about how they can show this in a picture with the parts of the tree and with different colors.
- Have students turn to Activity Page 8.1.
- Have students color the trees and backgrounds to show the seasons.
- As students complete their drawings, circulate around the room asking students which of their drawings corresponds to each season.

Activity Page 8.1



ENGLISH LANGUAGE LEARNERS



Writing

Writing

#### **Beginning**

Ask students to point to parts of their picture as you name them (e.g., "Point to the apple tree in the fall.").

#### Intermediate

Provide students with a specific sentence frame (e.g., "The apple tree in the fall looks like . . .").

#### Advanced/Advanced High

Encourage students to dictate a complete sentence using vocabulary words related to deciduous trees and the seasons.

ELPS 5.G

TEKS K.6.E Interact with sources in meaningful ways such as illustrating or writing; TEKS K.11.B Dictate or compose informational texts.

•	As students dictate to you which of their drawings corresponds to each
	season, record on each student's drawing: spring, summer, fall, and winter.

#### Challenge

Have students label their drawings independently: spring, summer, fall, and winter.



#### **PLANTS**

## Evergreen Trees

#### PRIMARY FOCUS OF LESSON

#### **Speaking and Listening**

Students will recall facts about deciduous trees.

TEKS K.1.A

#### Reading

Students will compare and contrast deciduous and evergreen trees.

TEKS K.5.A; TEKS K.5.G; TEKS K.5.H

#### Language

Students will demonstrate an understanding of the Tier 3 words deciduous and evergreen.

TEKS K.6.F

#### Writing

Students will illustrate an evergreen tree using details from an informational text.

TEKS K.6.E; TEKS K.11.B

#### **FORMATIVE ASSESSMENT**

#### **Drawing Activity**

**Drawing the Read-Aloud** Students will draw an evergreen tree, illustrating their understanding of its characteristics.



TEKS K.1.A Listen actively and ask questions to understand information and answer questions using multi-word responses;
TEKS K.5.A Establish purpose for reading assigned and self-selected texts with adult assistance; TEKS K.5.G Evaluate details
to determine what is most important with adult assistance; TEKS K.5.H Synthesize information to create new understanding
with adult assistance; TEKS K.6.F Respond using newly acquired vocabulary as appropriate; TEKS K.6.E Interact with
sources in meaningful ways such as illustrating or writing; TEKS K.11.B Dictate or compose informational texts.

#### LESSON AT A GLANCE

	Grouping	Time	Materials	
Introducing the Read-Aloud				
What Have We Already Learned?	Whole Group	10 min.	☐ Flip Book: 9A-1	
Read-Aloud				
Purpose for Listening	Whole Group	30 min.	☐ Flip Book: 9A-2-9A-8	
"Evergreen Trees"				
Comprehension Questions				
Word Work: Deciduous and Evergreen				
This is a good opportunity to take a break.				
Application				
Drawing the Read-Aloud	Independent	20 min.	□ paper	
			☐ drawing tools	

#### ADVANCE PREPARATION

#### **Universal Access**

- Bring in pictures of different kinds of deciduous and evergreen trees so students can see the differences between them.
- Bring in leaves or small branches of deciduous and evergreen trees.
- Take students on a walk outdoors and have them identify deciduous and evergreen trees.

#### **CORE VOCABULARY**

**cones, n.** the parts of some evergreen trees that contain the seeds

Example: Evan picked up the cones from under the evergreen tree.

Variation(s): cone

**conifers, n.** evergreen trees that have needle-like leaves and make cones Example: Luciana tried not to prick her finger on the sharp needles of the conifers.

Variation(s): conifer

evergreen, adj. having green leaves all year round

Example: The evergreen tree still looked green in the winter.

Variation(s): none

**needles, n.** very thin leaves

Example: The needles on the pine tree were prickly.

Variation(s): needle

Vocabulary Chart for "Evergreen Trees"					
Туре	Tier 3 Domain-Specific Words	Tier 2 General Academic Words	Tier 1 Everyday Speech Words		
Vocabulary	conifers evergreen				
Multiple Meaning	cones needles				
Sayings and Phrases	all year long				

**Lesson 9: Evergreen Trees** 

## Introducing the Read-Aloud



**Speaking and Listening:** Students will recall facts about deciduous trees.

TEKS K.1.A

#### WHAT HAVE WE ALREADY LEARNED?

#### **Show image 9A-1: Winter forest**

- Review with students what they have already learned about deciduous trees. Prompt discussion with the image and the following questions:
  - What are the two main types of trees? (evergreen and deciduous)
  - How are they different? (Evergreen trees stay green all year; deciduous trees lose their leaves in the fall.)
  - What happens to the leaves of deciduous trees in the fall or autumn? (The leaves of deciduous trees are shed in autumn.)
  - Why do deciduous trees lose their leaves in the fall? (Deciduous trees lose their leaves because they become dormant and stop making leaves to conserve energy during the winter.)
  - When do deciduous trees begin to grow new leaves? (Deciduous trees grow new leaves in the spring.)



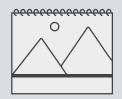
#### Check for Understanding

**Thumbs Up/Thumbs Down:** Evergreen trees lose their leaves in the fall. (thumbs down)

Deciduous trees lose their leaves in the fall. (thumbs up)



Flip Book 9A-1





**LANGUAGE** LEARNERS

Speaking and Listening

**Exchanging Information** and Ideas

#### Beginning

Reframe questions as simple yes/no questions (e.g., "Do deciduous trees lose their leaves in the fall?").

#### Intermediate

Provide students with a specific sentence frame (e.g., "Deciduous trees are . . .").

#### Advanced/Advanced High

Encourage students to use key details in complete sentences (e.g., "Deciduous trees are trees that lose their leaves in the fall.").

ELPS 1.E; ELPS 2.G;

ELPS 3.G



TEKS K.1.A Listen actively and ask questions to understand information and answer questions using multi-word responses.

Lesson 9 Evergreen Trees

#### **Lesson 9: Evergreen Trees**

## Read-Aloud



**Reading:** Students will compare and contrast deciduous and evergreen trees.

#### TEKS K.5.A; TEKS K.5.G; TEKS K.5.H

**Language:** Students will demonstrate an understanding of the Tier 3 words *deciduous* and *evergreen*.

#### TEKS K.6.F

#### PURPOSE FOR LISTENING

- Tell students the main topic, or central idea, of today's lesson is evergreen trees.
- Tell students to listen carefully to learn about evergreen trees and to find out how they are different from deciduous trees.

#### "EVERGREEN TREES" (15 MIN.)

# 552

#### **Show image 9A-2: Evergreen trees**

The trees in this picture are all **evergreen** trees. Evergreen trees are similar and different to the deciduous trees you learned about earlier.

We use the word *evergreen* to describe plants that have leaves and stay green year-round. Evergreens come in a variety of shapes and sizes, but they

all have at least one obvious thing in common: they are always green. Do you remember what word is inside the word evergreen that helps us to know they are always green? Are there any evergreen trees like these near your home?



#### **Show image 9A-3: Christmas tree**

One type of evergreen tree is called a pine tree. Pine trees have a pleasant smell, which many people like to have in their homes during the winter months.



Challenge

Ask students to look at

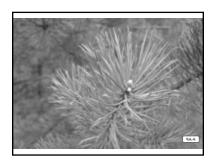
the picture of evergreen trees and discuss how evergreen and

deciduous trees might

be different based on

their appearance.

**TEKS K.5.A** Establish purpose for reading assigned and self-selected texts with adult assistance; **TEKS K.5.G** Evaluate details to determine what is most important with adult assistance; **TEKS K.5.H** Synthesize information to create new understanding with adult assistance; **TEKS K.6.F** Respond using newly acquired vocabulary as appropriate.



#### **Show image 9A-4: Pine needles**

The leaves of most evergreen trees are called **needles**. Needles are very thin leaves. This picture shows the needles of a pine tree. Evergreen trees, like deciduous trees, make food through photosynthesis, which occurs in these tiny, needle leaves. Do you remember what photosynthesis is? [Photosynthesis is

how plants use light to turn water and air into food.] Photosynthesis slows down during the winter in evergreen trees, but it does not stop altogether as it does in deciduous trees. Because the needles of an evergreen tree are much smaller than the leaves of a deciduous tree, it is easier for the evergreen tree to make enough food to keep most of its leaves alive and on the tree all year long.



#### **Show image 9A-5: Pine cones on ground**

Wherever you find evergreen trees, you are also likely to find these things scattered around on the ground. If you look up while standing under an evergreen tree, you might see some of these growing on the tree's branches. They are called **cones**. Cones are the parts of some evergreen trees that contain the seeds.

Most evergreen trees are called **conifers**, which is another word for trees that have needle-like leaves and make cones. The cones in this picture are called pine cones. Unlike deciduous trees, which have flowers and fruit, conifer trees do not have flowers and they do not grow fruit. Instead, conifer trees make cones, and seeds grow inside their cones. When a cone opens on the ground, the seeds fall out and are spread by the wind. Why are the seeds important? If a seed falls into the soil and has the right amount of food, water, air, and light, it might grow into a seedling and then a sapling. Do you remember what a sapling is? [A sapling is a baby tree.]

#### Support

Explain that the word needle has other meanings. A needle is also a tool used for sewing.

#### Support

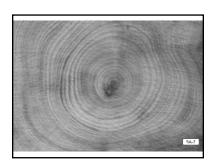
Explain that the word cones can have other meanings. The word cones also means shapes like ice-cream cones. For additional support, please refer to Poster 5M in the Flip Book for multiple meanings of cones.



#### **Show image 9A-6: Pine sapling**

The first plants you will notice in this picture are ferns, which are not evergreens or trees. Ferns are short plants that grow in the woods. If you have sharp eyes, though, you can see another type of plant in this picture. There is a little pine sapling—a baby tree—pushing its way through the ferns. [Point to the pine

sapling in the picture.] If the sapling is tough—as many pine trees are—it will continue growing until it stands high above the ferns. It may grow big enough to produce its own pine cones one day. Remember that the seeds to make new pine trees are inside the cones.



#### **Show image 9A-7: Tree rings**

Did you know that a tree adds a new layer of wood each year? This new layer forms what is called a growth ring. When you cut down a tree, you can see the growth rings. You can tell exactly how old a tree is by counting the rings. How old do you think this tree is? This tree is a little more than fifty years old, which

is actually pretty young for a tree. If it hadn't been cut down, this tree might have lived to have a hundred or more growth rings!



## Show image 9A-8: Pine branch and oak branch

Remember, evergreen trees and deciduous trees are the two main types of trees found in the world. Next time you see a tree, try to figure out whether it is an evergreen or a deciduous tree. The leaves may give you your first clue.



#### Check for Understanding

Making Choices: Deciduous tree or evergreen tree?

- This tree has broad leaves. (deciduous tree)
- This tree has thin needles. (evergreen tree)
- This tree's leaves don't fall off in the fall. (evergreen tree)
- This tree's leaves fall off in the fall. (deciduous tree)

#### **COMPREHENSION QUESTIONS (10 MIN.)**

- 1. **Literal** What is an evergreen tree? (An evergreen tree is a tree that stays green year-round.)
- 2. **Literal** What important part of a plant is found in cones? (Seeds are found in cones.)
- 3. **Inferential** What are the leaves of an evergreen called? (*The leaves of an evergreen are called needles*.) Why are the needles of an evergreen important? (*The needles of an evergreen are important because that is where the plant's food is made during photosynthesis.*)
- 4. **Inferential** How can you tell how old a tree is? (You can tell how old a tree is by counting its growth rings. Each ring equals one year.)
- 5. **Evaluative** Think Pair Share: How are deciduous trees and evergreen trees alike? How are they different? (They both need the same things and have some of the same parts. Deciduous trees have broad leaves that all fall to the ground in the fall, while evergreen trees have thin needles that do not fall.)

#### WORD WORK: DECIDUOUS AND EVERGREEN (5 MIN.)

- 1. In the read-aloud you heard, "Evergreen trees are similar and different to the deciduous trees you learned about earlier."
- 2. Say the word deciduous with me. Now, say the word evergreen.
- 3. If a plant is deciduous, it loses all of its leaves in the fall. If a plant is evergreen, it keeps some green leaves or needles all year long.
- 4. We can look at most trees and identify them as deciduous or evergreen.

#### Support

If students have difficulty responding to questions, reread pertinent lines of the read-aloud and/or refer to specific images.



## Speaking and Listening

#### Offering Opinions

#### **Beginning**

Provide students sentence frames using a small set of learned phrases (e.g., "I think deciduous and evergreen plants are different because . . .").

#### Intermediate

Provide students sentence frames using an expanded set of learned phrases (e.g., "I think deciduous trees are different from evergreen trees because . . .").

### Advanced/Advanced High

Provide minimal support and guidance for open responses.

ELPS 1.E; ELPS 2.G; ELPS 3.G

- 5. Have you ever seen deciduous trees or evergreen trees? Try to use the words deciduous and/or evergreen when you tell us about them and what they look like. [Ask two or three students. If necessary, guide and/or rephrase the students' responses: "I saw a deciduous tree . . . and an evergreen tree . . ."]
- 6. What are the words we've been talking about?

**Use a Making Choices activity for follow-up.** I am going to read a sentence. If the sentence I read describes a deciduous tree, say, "The sentence describes a deciduous tree." If the sentence I read describes an evergreen tree, say, "The sentence describes an evergreen tree." Remember to answer in complete sentences.

- The trees in the forest are beautiful in the autumn with their red and yellow leaves. (The sentence describes a deciduous tree.)
- The ground is covered with pine cones that have fallen from the tree. (*The sentence describes an evergreen tree.*)
- In winter, the branches of the tree are bare. (The sentence describes a deciduous tree.)
- The trees in our backyard stay green all year long. (The sentence describes an evergreen tree.)
- The tree makes its food in the thin leaves called needles. (The sentence describes an evergreen tree.)

# Application



**Writing:** Students will illustrate an evergreen tree using details from an informational text.

#### TEKS K.6.E; TEKS K.11.B

#### DRAWING THE READ-ALOUD

**TEKS K.11.B** 

- Ask students to describe an evergreen tree. (An evergreen tree does not lose
  its leaves in the fall; an evergreen tree has thin needles; evergreen trees have
  cones that hold seeds.)
- On a blank piece of paper, have students draw a picture of an evergreen tree and show as many details as possible.
- Remind students that although evergreen trees are always green, they can look different depending on the season or weather.
- Encourage students to draw a background to help show these differences.



#### Check for Understanding

**Discuss:** As students complete their drawings, circulate around the room and ask them questions about their drawings.

• Remember to repeat and expand upon students' responses using richer and more complex language, including, if possible, any read-aloud vocabulary.

End of Lessor

#### Support

As needed, show images of evergreen trees from the read-aloud.



#### Writing

#### Writing

#### **Beginning**

Ask students to point to parts of their drawing as you name them (e.g., "Point to the needles.").

#### Intermediate

Provide students with a specific sentence frame (e.g., "The evergreen tree has needles . . .").

### Advanced/Advanced High

Encourage students to dictate or write a complete sentence using vocabulary words related to evergreen trees.

ELPS 5.G

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**TEKS K.6.E** Interact with sources in meaningful ways such as illustrating or writing; **TEKS K.11.B** Dictate or compose informational texts

Lesson 9 Evergreen Trees

# 10

#### **PLANTS**

# Plants and People

#### PRIMARY FOCUS OF LESSON

#### **Speaking and Listening**

Students will review key information about plants.

TEKS K.1.A

#### Reading

Students will describe ways that plants are helpful to people.

TEKS K.5.E; TEKS K.6.C

#### Language

Students will demonstrate an understanding of the Tier 2 word bouquet.

TEKS K.6.F

#### Reading

With assistance, students will match plant parts to the everyday items people can make for themselves.

TEKS K.5.H; TEKS K.6.C

#### FORMATIVE ASSESSMENT

#### Activity Page 10.1

**Plant Parts We Use** Students will demonstrate an understanding of how people use plant parts to help themselves.



**TEKS K.1.A** Listen actively and ask questions to understand information and answer questions using multi-word responses; **TEKS K.5.E** Make connections to personal experiences, to ideas in other texts, and society with adult assistance; **TEKS K.6.C** Use text evidence to support an appropriate response; **TEKS K.6.F** Respond using newly acquired vocabulary as appropriate; **TEKS K.5.H** Synthesize information to create new understanding with adult assistance.

#### LESSON AT A GLANCE

	Grouping	Time	Materials			
Introducing the Read-Aloud						
What Have We Already Learned?	Whole Group	10 min.				
Essential Background Information or Terms						
Read-Aloud						
Purpose for Listening	Whole Group	30 min.	☐ Flip Book: 10A-1–10A-14			
"Plants and People"						
Comprehension Questions						
Word Work: Bouquet						
This is a good opportunity to take a break.						
Application						
Plant Parts We Use	Independent	20 min.	☐ Activity Page 10.1			
			☐ paper			
			☐ drawing tools			

#### ADVANCE PREPARATION

#### **Application**

• Prepare to divide students into pairs to complete the activity.

#### **Universal Access**

- Bring in plant parts and the items that people can make from them (e.g., a cotton ball and a piece of cloth; an ear of corn and a can of corn; wheat and a loaf of bread).
- Bring in a bouquet of flowers

#### **CORE VOCABULARY**

**bouquet, n.** a bunch of flowers that has been arranged and wrapped

Example: I gave my mom a bouquet of roses on Mother's Day.

Variation(s): bouquets

**medicines**, **n.** substances given to a sick person to help them feel better

Example: The doctor gave Javier two different medicines to help him feel

better.

Variation(s): medicine

oxygen, n. a gas found in air and water

Example: We breathe in oxygen and breathe out carbon dioxide.

Variation(s): none

**provide, v.** to supply or give something

Example: Your teacher will provide the paper, but you must bring a pencil.

Variation(s): provides, provided, providing

Vocabulary Chart for "Plants and People"						
Туре	Tier 3 Domain-Specific Words	Tier 2 General Academic Words	Tier 1 Everyday Speech Words			
Vocabulary	oxygen (oxígeno)	bouquet provide medicines				
Multiple Meaning						
Sayings and Phrases	have you lately?					

## **Lesson 10: Plants and People**

## Introducing the Read-Aloud



**Speaking and Listening:** Students will review key information about plants.



#### WHAT HAVE WE ALREADY LEARNED? (5 MIN.)

- Remind students they have already learned several different ways people make use of different parts of plants.
- Ask students to name a couple of the fruits they have learned about.
- As needed, guide them in remembering the different fruits and the parts of those fruits that people eat.
- Remind students about the gigantic turnip they heard about, and review with them the parts of a turnip that people eat. (both the tops, or greens, and the roots)

#### ESSENTIAL BACKGROUND INFORMATION OR TERMS (5 MIN.)

- Tell students that in today's lesson, they will learn that plants provide two very important things for animals and humans to survive: oxygen and food.
- Have students take a deep breath.
- Tell students that when you breathe in, oxygen goes into your body.
- Explain that just like we must eat every day, we must also breathe oxygen in order to survive.



Speaking and Listening

**Exchanging Information** and Ideas

#### **Beginning**

Ask students yes/no questions about how people use different plant parts and encourage them to ask their own questions about this subject.

#### Intermediate

Encourage students to build on what the previous student has said about how people use different plant parts.

#### Advanced/Advanced High

Challenge students to say something more about what the previous student has said about how people use different plant parts.

ELPS 1.E; ELPS 2.G; ELPS 3.G

TEKS K.1.A Listen actively and ask questions to understanding information and answer questions using multi-word

#### Lesson 10: Plants and People

## Read-Aloud



**Reading:** Students will describe ways that plants are helpful to people.

#### TEKS K.5.E; TEKS K.6.C

**Language:** Students will demonstrate an understanding of the Tier 2 word bouquet.

#### TEKS K.6.F

Challenge

Ask students to look

discuss why life would be impossible for us if it

at the picture and

weren't for plants.

#### PURPOSE FOR LISTENING

- Tell students that eating and breathing are only two of the many ways that people use plants.
- Tell students to listen carefully to find out how plants provide oxygen and some other ways people use plants.

#### "PLANTS AND PEOPLE" (15 MIN.)

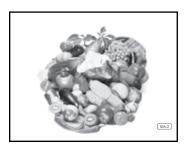
# TOAL

#### **Show image 10A-1: Woman eating lettuce**

Where would we be without plants? The truth is that life for animals, insects, and human beings would be impossible if it weren't for plants.

The most obvious reason plants are important is that they **provide** food. Provide *means to give* or supply something. People, including you, eat

plants or parts of plants every day. What does the woman in this picture have in her mouth? It's lettuce! Of course, you don't see too many people chomping on lettuce in this way, but you will find lettuce in salads and on sandwiches. Lettuce is good for you. It is a healthy vegetable that comes from a plant.

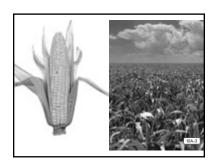


#### **Show image 10A-2: Fruits and vegetables collage**

What fruits and vegetables do you see in this picture? Just like fruit, all vegetables are parts of plants, including potatoes, beans, peas, carrots, peppers, cucumbers, and squash. Each comes from different plants—and from different parts

**TEKS K.5.E** Make connections to personal experiences, to ideas in other texts, and society with adult assistance; **TEKS 5.6.C** Use text evidence to support an appropriate response; **TEKS K.6.F** Respond using newly acquired vocabulary as appropriate.

of plants—but they all come from plants nonetheless. Many fruits and vegetables are healthy and tasty, so you should try to eat some every day.



#### **Show image 10A-3: Corn**

This is a picture of an ear of corn and a cornfield. Believe it or not, corn comes from a special type of grass. Do you like to eat corn on the cob?



## Show image 10A-4: Wheat and wheat products

Have you eaten any bread lately? It is likely, then, that you have eaten wheat. Wheat also comes from a type of grass. Its seeds are ground up and used to make wheat flour, and wheat flour is used in many kinds of breads, cereals, and cakes.



#### **Show image 10A-5: Rice**

This is a picture of a bowl of rice and a rice paddy, or field. People all over the world eat rice. It is used to feed billions of people every day!

You have just learned about three important grains: corn, wheat, and rice. Grains are seeds that come from different types of grasses.

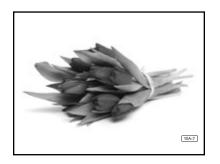


#### **Show image 10A-6: Cotton crop**

Plants and plant products can also be used to make fabric, or cloth. Fabrics are used to make clothing, blankets, and other everyday things. This picture shows cotton plants. Fluffy, white cotton is often dyed, or colored, to make colorful clothing and blankets.

#### Support

Briefly review the different parts of the plant.



#### **Show image 10A-7: Flowers**

When people are feeling sick or sad, it is nice to give them a **bouquet** of flowers. A bouquet is a bunch of flowers arranged together. Flowers can cheer people up and let them know they are loved. Have you ever received or given flowers?



#### **Show image 10A-8: Rubber tree and tire**

There are many things that you would not guess have anything at all to do with plants, such as the tires on a car, which are made of rubber. In fact, much of the rubber we use—for everything from tires to rubber bands to basketballs—comes from the sap of rubber trees. *[Explain to students that the white liquid*]

coming out of this rubber tree is sap, which is turned into rubber.]



#### Show image 10A-9: Sap of a maple tree

[Point to the different parts as you talk about them.]

Another type of sap we use comes from maple trees. This type of sap is clear and gives us something much better-tasting than rubber: maple syrup! In early spring, people drill small holes into the trunks of maple trees and insert

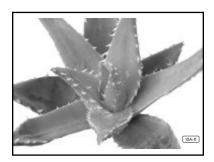
spouts, which allow the sap to drip out into buckets or holding tanks. When the sap is boiled, it turns into maple syrup. Don't worry—the holes don't hurt the trees! They heal during the summer and fall, and people pick a different spot on the trunk to drill the next spring.



## Show image 10A-10: Using plants as medicines

Some plants and plant parts can be used to make **medicines** for curing diseases or healing wounds. Using plants to make medicine requires a great deal of knowledge. A person must know how to find the right kind of plant, and he or she must know exactly which part of

the plant to use and how to use it. In some parts of the world, knowledge of medicinal plants has been passed down from generation to generation—from parents to their children—for thousands of years.



#### **Show image 10A-11: Aloe vera plant**

One very common medicinal plant is the aloe vera plant. Inside its thick green leaves is a clear gel, which many people use to help heal small cuts and to soothe sunburns. Some doctors and scientists think that eating or drinking parts of the aloe plant is good for your stomach, and can help prevent many diseases.



#### **Show image 10A-12: Lumberjack**

People use the wood from trees to build houses and to make many other things. This lumberjack, a person who cuts down trees, is using a powerful chain saw to cut down a great big pine. Why do you think this lumberjack is wearing ear plugs? After he chops this tree down, the lumberjack will saw off all the

branches. The bare trunk will be loaded onto a truck and taken to a lumber mill, where it will be turned into boards.



#### **Show image 10A-13: Uses for wood**

People also use the wood from trees to make fires when it is cold outside. This person is splitting logs to burn in the fireplace. Wood is also used to make tool handles, instruments, and other objects. Baseball bats are often made of wood from the ash tree, one of the strongest trees in the forest. It is very

important to plant a new tree for every old tree that is cut down, so that there will be plenty of trees for other people to use in the future.

#### Support

If students have difficulty responding to questions, reread pertinent lines of the read-aloud and/or refer to specific images.





Speaking and Listening

Offering Opinions

#### Beginning

Provide students sentence frames using a small set of learned phrases (e.g., surprised me the most because . . .").

#### Intermediate

Provide students sentence frames using an expanded set of learned phrases (e.g., "I think the way people use plants or \_\_\_\_\_ surprised me the most because . . .").

## Advanced/Advanced High

Provide minimal support and guidance for open responses.

ELPS 1.E; ELPS 2.G; ELPS 3.G



#### Show image 10A-14: Child and trees

Here is another important thing to know about plants: they help keep the air clean and fresh. When plants make their own food, they release **oxygen** into the air. What is this process called? [Photosynthesis.] When you breathe in, that same oxygen travels to your lungs. Oxygen keeps you alive; you need oxygen all

day, every day. Take a deep breath. You just breathed in oxygen.

Did you have any idea how important plants are to people?



#### Check for Understanding

**Recall:** What are some of the ways people use plants? [List students' responses on the board/chart paper.]

#### **COMPREHENSION QUESTIONS (10 MIN.)**

- 1. **Literal** What are some foods that plants provide? (*Plants provide corn, wheat, rice, vegetables, and maple syrup.*)
- 2. **Literal** What can people make from cotton plants? (*People can make clothes and blankets from cotton plants.*)
- 3. **Literal** Many plants are used for medicine. Which plant is used for cuts and burns? (*The aloe vera plant is used to heal cuts and burns.*)
- 4. **Literal** What is lumber, or wood from trees, used for? (*Lumber is used for building houses and making things, like baseball bats.*)
- 5. **Evaluative** *Think Pair Share:* Which of the ways that people use plants surprised you the most? Why? (Answers may vary, but should include support from the read-aloud.)

#### WORD WORK: BOUQUET (5 MIN.)

- 1. In the read-aloud you heard, "When people are feeling sick or sad, it is nice to give them a bouquet of flowers."
- 2. Say the word bouquet with me.
- 3. A bouquet is a bunch of flowers, sometimes tied together with a string or placed in a vase.
- 4. Ava gave her mother a bouquet of flowers for her birthday.
- 5. Tell me who you would like to give a bouquet of flowers to and why. Try to use the word *bouquet* when you tell us about it. [Ask two or three students. If necessary, guide and/or rephrase the students' responses: "I would give a bouquet to \_\_\_\_\_, because . . . "]
- 6. What's the word we've been talking about?

**Use a Sharing activity for follow-up.** Share which favorite flowers you would use to make a bouquet (e.g., roses, tulips, irises, daisies, etc.). What other kinds of decorations would you add to the bouquet (toys, balloons, etc.)? Whom would you give this bouquet to? Be sure to begin your responses with, "I would use \_\_\_\_\_ to make a bouquet because . . ."



#### Support

You may wish to complete this activity as a whole group.

#### Challenge

You may wish to have students complete this activity individually.

**ENGLISH** LANGUAGE **LEARNERS** 



#### Speaking and Listening

**Exchanging Information** and Ideas)

#### **Beginning**

Reframe questions as simple yes/no questions (e.g., "Do people use cotton to make clothes?").

#### Intermediate

Provide students with a specific sentence frame (e.g., "People use cotton to . . .").

#### Advanced/Advanced High

Encourage students to use key details in complete sentences (e.g., "People use cotton from cotton plants to make fabric and cloth.").

> ELPS 1.E; ELPS 2.G; ELPS 3.G

### **Lesson 10: Plants and People** Application



Reading: With assistance, students will match plant parts to the everyday items people can make from them.

#### TEKS K.5.H; TEKS K.6.C

#### PLANT PARTS WE USE

- Remind students that people can make different items from plants.
- Ask students to recall what different items people can make from plants. (Answers may vary, but may include food, clothing, instruments, medicine, or tires.)
- Have students turn to Activity Page 10.1.
- Have students work in pairs to match each item on the left with the plant that it comes from on the right.
- As needed, discuss and/or refer back to specific passages in the read-aloud to assist students with completing the activity page.
- As students complete the activity page, circulate around the room, and discuss students' answers.
- Remember to repeat and expand upon students' responses, using richer and more complex vocabulary, including, if possible, any read-aloud vocabulary.



TEKS K.5.H Synthesize information to create new understanding with adult assistance; TEKS K.6.C Use text evidence to support an appropriate response.

# 11

#### **PLANTS**

# George Washington Carver

#### PRIMARY FOCUS OF LESSON

#### **Speaking and Listening**

Students will discuss the story of Johnny Appleseed.

#### TEKS K.1.A

#### Reading

After listening to a story about George Washington Carver written in third-person voice, students will explain his achievements.

#### TEKS K.5.A; TEKS K.9.E

#### Language

Students will demonstrate an understanding of the Tier 3 word crops.

#### TEKS K.6.F

Students will demonstrate an understanding of the saying *great oaks from little acorns grow*.

#### **TEKS K.3.B; TEKS K.6.E; TEKS K.11.B**

#### **FORMATIVE ASSESSMENT**

#### **Exit Pass**

**Drawing** Students will draw a picture illustrating the saying "great oaks from little acorns grow."

**TEKS K.3.B; TEKS K.6.E; TEKS K.11.B** 

TEKS K.1.A Listen actively and ask questions to understand information and answer questions using multi-word responses; TEKS K.5.A Establish purpose for reading assigned and self-selected texts with adult assistance; TEKS K.9.E Listen to and experience first- and third-person texts; TEKS K.6.F Respond using newly acquired vocabulary as appropriate; TEKS K.3.B Use illustrations and texts the student is able to read or hear to learn or clarify word meanings; TEKS K.6.E Interact with sources in meaningful ways such as illustrating or writing; TEKS K.11.B Dictate or compose informational texts.

#### LESSON AT A GLANCE

	Grouping	Time	Materials			
Introducing the Read-Aloud						
What Have We Already Learned?	Whole Group	10 min.	☐ Flip Book: 11A-1			
Read-Aloud						
Purpose for Listening	Whole Group	30 min.	<ul><li>□ U.S. map</li><li>□ Flip Book: 11A-2–11A-8</li></ul>			
"George Washington Carver"			·			
Comprehension Questions						
Word Work: <i>Crops</i>						
This is a good opportunity to take a break.						
Application						
Sayings and Phrases	Whole Group	20 min.	□ paper			
Domain-Related Trade Book or Student Choice			☐ drawing tools ☐ trade book of your choice (optional)			

#### ADVANCE PREPARATION

#### **Read-Aloud**

• Prepare a U.S. map to locate Missouri and Alabama for students.

#### CORE VOCABULARY

**botanist, n.** a scientist who studies plants

Example: The botanist studied poisonous plants.

Variation(s): botanists

botany, n. the study of plants

Example: Jan wants to study botany when she grows up.

Variation(s): none

crops, n. plants that are grown in large numbers for people to use

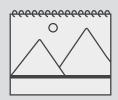
Example: The farmer planted three different crops: corn, soybeans, and

wheat.

Variation(s): crop

Vocabulary Chart for "George Washington Carver"						
Туре	Tier 3 Domain-Specific Words	Tier 2 General Academic Words	Tier 1 Everyday Speech Words			
Vocabulary	botanist (botánico/a) botany (botánica) crops					
Multiple Meaning						
Sayings and Phrases	caught his eye					

#### Flip Book 11A-1







Speaking and Listening

**Exchanging Information** and Ideas

#### **Beginning**

Ask students yes/ no questions about Johnny Appleseed and encourage them to ask their own questions about him.

#### Intermediate

**Encourage students** to build on what the previous student has said about Johnny Appleseed.

#### Advanced/Advanced High

Challenge students to say something more about what the previous student has said about Johnny Appleseed.

ELPS 1.E; ELPS 2.G;

ELPS 3.G

## **Lesson 11: George Washington Carver**

## Introducing the Read-Aloud



Speaking and Listening: Students will discuss the story of Johnny Appleseed.

TEKS K.1.A

#### WHAT HAVE WE ALREADY LEARNED?

#### **Show image 11A-1: Johnny Appleseed**

- Have students identify the person in the illustration.
- Ask students what they remember about Johnny Appleseed.
  - As students respond, repeat, and expand upon each response using richer and more complex language, including, if possible, any read-aloud vocabulary.
  - If a student's response includes inaccurate information, refer back to earlier read-alouds and/or illustrations to correct any misunderstandings.
- Ask students why Johnny Appleseed became famous. (Johnny Appleseed became famous because he traveled throughout the United States, planting apple seeds wherever he could, so that apple trees would grow everywhere.)



**TEKS K.1.A** Listen actively and ask questions to understand information and answer questions using multi-word responses.

## Read-Aloud



**Reading:** After listening to a story about George Washington Carver written in third-person voice, students will explain his achievements.

#### TEKS K.5.A; TEKS K.9.E

**Language:** Students will demonstrate an understanding of the Tier 3 word *crops*.

#### TEKS K.6.F

#### PURPOSE FOR LISTENING

- Explain to students that today they are going to learn about another person who became famous because of his love for plants.
- Explain to students that this text was not written by George Washington
- Carver. It was written about him by someone else. TEKS K.9.E
  - Tell students to listen carefully to find out what this person did because he loved plants and how he became famous.

#### "GEORGE WASHINGTON CARVER" (15 MIN.)

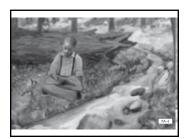
TEKS K.9.E



#### **Show image 11A-2: George Washington Carver**

Today you are going to hear about another man who, like Johnny Appleseed, became famous because of his love for plants. Do you remember what Johnny Appleseed did that made him famous? He, too, lived many years ago, though not quite as long ago as Johnny Appleseed. His name

was George Washington Carver. He became famous throughout the United States as a **botanist**—which is a scientist who studies plants. George first developed his interest in plants as a young boy.



#### **Show image 11A-3: Young George**

As a child, George used his free time to explore the forests surrounding his home on a farm in Missouri. [On a map, point to the state you live in, then point to Missouri.] He spent many hours roaming the woods discovering all sorts of wonderful things. George liked to collect things that caught his eye.

**TEKS K.5.A** Establish purpose for reading assigned and self-selected texts with adult assistance; **TEKS K.9.E** Listen to and experience first- and third-person texts; **TEKS K.6.F** Respond using newly acquired vocabulary as appropriate.



#### Show image 11A-4: Young George planting a new plant in his garden

George was especially curious about the different kinds of plants he noticed during his explorations. He wanted to study these plants further, but he knew that if he pulled them out of the ground and took them back to the cabin. they would die. Why would the plants die? What

do plants need to survive? So when George found an interesting plant, he would carefully dig it up and remove it from the place it was growing, roots and all, so he could plant it in a special garden close to the cabin. A garden is a plot of land where plants are grown.

George moved plant after plant to this special garden, where he looked after each and every plant, watering and caring for them all to make sure they continued to grow. As an adult, George later wrote, "I literally lived in the woods. I wanted to know every strange stone, flower, insect, bird, or beast. Day after day I spent time in the woods alone in order to collect my floral beauties and put them in my little garden I had hidden in the brush not far from the house . . ."

#### Support

Explain that the word garden can have other meanings. The word garden also means to take care of plants so they can grow. For additional support, please refer to Poster 6M in the Flip Book for multiple meanings of garden.

#### Challenge

What are floral beauties? What did George do with the floral beauties?



#### **Show image 11A-5: Plant doctor**

Fascinated by the plants in his garden, George spent hours tending, observing, and studying them. In time, he came to learn about the special needs of each plant—how much water each needed, whether it grew best in full sunlight or with some shade. George also took a special interest in caring for plants that were

not growing well. He became so skillful at caring for these sick plants that people throughout the neighborhood began to call him the "plant doctor."



#### Show image 11A-6: George painting

George's passion for plants led him to develop another talent, that of an artist. Of course, his favorite subjects to paint were his beloved plants! Though he did not have a proper canvas or paints, he improvised with what he could find. A canvas is something you paint on. When you improvise, you make

or do something with whatever you have. George made his first paints from different plant parts. He mashed bark, roots, and wild berries, and used them to paint on old boards or even flat rocks. George continued to paint throughout his entire life.



## Show image 11A-7: Photo of George as an adult

George was truly a remarkable and talented person. He was an excellent student who learned quickly. He went on to study at college, eventually becoming an expert in **botany**, the study of plants. After he finished college, George became a professor at a famous

university in Alabama. [On a map, point to the state you live in, then point to Alabama.]



#### **Show image 11A-8: Collage of products**

There, he spent the rest of his life continuing to study plants and experiment with ways to make them grow better. He discovered many ways to help farmers improve how they grew plants and **crops** on their farms. *Crops are plants that are grown in large numbers to be used by people.* George encouraged farmers

to grow crops other than cotton—especially peanuts and sweet potatoes. He also found many ways to use peanuts in all different types of products like dyes, oils, and makeup. He even came up with a number of recipes for foods that used peanuts. George Washington Carver is especially remembered today for these discoveries.

#### Support

If students have difficulty responding to questions, reread pertinent lines of the read-aloud and/or refer to specific images.





Speaking and Listening

Offering Opinions

#### **Beginning**

Provide students sentence frames using a small set of learned phrases (e.g., "I think \_\_\_\_\_ was the most extraordinary thing George Washington Carver did.").

#### Intermediate

Provide students sentence frames using an expanded set of learned phrases (e.g., "I think \_\_\_\_\_ was the most extraordinary thing George Washington Carver did because . . .").

## Advanced/Advanced High

Provide minimal support and guidance for open responses.

ELPS 1.E; ELPS 2.G; ELPS 3.G



#### Check for Understanding

**Recall:** What two plants did George Washington Carver encourage farmers to plant? (He encouraged farmers to plant peanuts and sweet potatoes.)

How did George Washington Carver help farmers? (George Washington Carver helped farmers by discovering new ways to help them improve how they grew crops and encouraging them to use other crops.)

#### **COMPREHENSION QUESTIONS (10 MIN.)**

- 1. **Inferential** How did George Washington Carver learn so much about plants? (He learned so much about plants because he took care of plants, made his own garden when he was a child, and studied botany in college.)
- 2. **Inferential** Why was George Washington Carver called the "plant doctor"? (George Washington Carver was called the "plant doctor" because he was very good at caring for sick plants.)
- 3. **Inferential** How did George Washington Carver make his paints? (George Washington Carver made his paints from bark, roots, and mashed berries, which are all parts of plants.)
- 4. **Evaluative** *Think Pair Share:* George Washington Carver was an extraordinary and special person in many ways, and he achieved many things. Of all the different things that George did or accomplished during his life, which one do you think was the most extraordinary? Why? (Answers may vary, but should include support from the read-aloud.)

#### WORD WORK: CROPS (5 MIN.)

- 1. In the read-aloud you heard, "[George Washington Carver] discovered many ways to help farmers improve how they grew plants and crops on their farms."
- 2. Say the word crops with me.
- 3. Crops are plants that are grown in large numbers for people to use.
- 4. The farmer grew wheat and corn crops for people to eat.
- 5. What other types of plants do you think could be grown as crops? Think about some of the plants that people eat. Try to use the word *crops* when you tell us about it. [Ask two or three students. If necessary, guide and/or rephrase the students' responses: "\_\_\_\_\_ could be grown as crops."]
- 6. What's the word we've been talking about?

**Use a Sharing activity for follow-up.** Share what types of crops you would like to grow and why you would like to grow them. Be sure to begin your responses with, "I would like to grow \_\_\_\_\_ as crops because . . ."

# Application



**Language:** Students will demonstrate an understanding of the saying *great oaks* from little acorns grow.



#### TEKS K.3.B; TEKS K.6.E; TEKS K.11.B

#### **SAYINGS AND PHRASES (5 MIN.)**

#### **Great Oaks from Little Acorns Grow**

- Remind students of the saying great oaks from little acorns grow.
- Have students explain the meaning of the saying.
  - If students have trouble, remind them that this saying means that just as
    a small acorn can grow into a towering oak tree, something that starts out
    small or not really important can become big or really important.
- Ask students if they think George Washington Carver's life was an example of the saying "great oaks from little acorns grow." Why or why not?



#### Exit Pass

Have students draw a picture illustrating the saying *great oaks* from little acorns grow.

#### DOMAIN-RELATED TRADE BOOK OR STUDENT CHOICE (15 MIN.)

#### **Domain-Related Trade Book**

- Locate a domain-related trade book to read aloud to the class.
- As you read, use the same strategies that you have been using when reading the read-aloud selections in this Teacher Guide—pause and ask occasional questions, rapidly clarify critical vocabulary within the context of the readaloud, etc.
- After you finish reading the trade book aloud, lead students in a discussion as to how the story or information in this book relates to the read-alouds they have heard in this domain.





Speaking and Listening

Offering Opinions

#### AII

Give students the sentence frame for offering their opinion: I think George Washington Carver's life was/was not an example of the saying because . . .

#### **Beginning**

Help students complete the sentence frame.

#### Intermediate

Encourage students to respond to the opinion of their peers by using phrases (e.g., I agree/I disagree; I also think that...).

## Advanced/Advanced High

Challenge students to respond to the opinion of their peers before they offer their own opinion.

ELPS 3.G



**TEKS K.3.B** Use illustrations and texts the student is able to read or hear to learn or clarify word meanings; **TEKS K.6.E** Interact with sources in meaningful ways such as illustrating or writing; **TEKS K.11.B** Dictate or compose informational texts.

#### **Student Choice**

- Ask students which read-aloud they have heard recently that they would like to hear again.
  - If necessary, reread the titles of recent read-alouds to refresh students' memories and/or show key illustrations from several read-alouds. You may also want to choose one yourself.
- Reread the selected text. Feel free to pause at different places, and talk about vocabulary and information that you did not discuss previously during the read-aloud.
- After the read-aloud, ask students if they noticed anything new or different during the second reading that they did not notice during the first reading.
- Ask them to try to express why they like this read-aloud.
- Remember to repeat and expand upon each response using richer and more complex language, including, if possible, any read-aloud vocabulary.

- End of Lesson

# Domain Review

#### **NOTE TO TEACHER**

You should spend one day reviewing and reinforcing the material in this domain. You may have students do any combination of the activities provided, in either whole-group or small-group settings.

#### CORE CONTENT OBJECTIVES ADDRESSED IN THIS DOMAIN

#### Students will:

- Explain that different kinds of plants grow in different environments
- Identify plants as living things
- Identify what plants need to live and grow: food, water, air, and light
- Identify the root, stem, branch, leaf, flower, fruit, and seed of a plant
- Explain basic facts about the root, stem, leaf, and seed of a plant
- Explain the basic life cycle of plants
- Explain that some plants produce fruit to hold seeds
- Compare and contrast the fruits and seeds of different plants
- Identify the parts of specific plants that are eaten by people
- Identify the petals on a flower
- Describe how bees collect nectar and pollen
- Describe how bees make and use honey
- Describe the important role bees play in plant pollination
- Demonstrate familiarity with the tall tale "Johnny Appleseed"
- Identify deciduous trees and recall basic facts about them
- Identify evergreen trees and recall basic facts about them
- Compare and contrast deciduous and evergreen trees
- Identify things that plants provide to people
- Describe the life and scientific achievements of George Washington Carver

#### **REVIEW ACTIVITIES**

#### **Image Review**

• Show the images from any read-aloud again, and have students retell the read-aloud using the images.

#### **Image Card Review**

#### Materials: Image Cards 1-14

• In your hand, hold Image Cards 1–14 fanned out like a deck of cards. Ask a student to choose a card and not show it to anyone else in the class. The student must then perform an action or give a clue about the picture they are holding. For example, for the evergreen plant, a student may give the clue, "This type of plant stays green all year long." The rest of the class will guess what is being described. Proceed to another card when the correct answer has been given.

#### **Key Vocabulary Brainstorming**

#### Materials: Chart paper, chalkboard, or whiteboard

• Give students a key domain concept or vocabulary word such as *fruit*. Have them brainstorm everything that comes to mind when they hear the word examples. Record their responses on chart paper, a chalkboard, or a whiteboard for reference.

#### **Plant Parts Review with Deciduous and Evergreen Trees**

#### Materials: Various plants; drawing paper, drawing tools

Show students images of deciduous and evergreen trees and ask them
to identify the parts. After talking about plants, have students design
and illustrate a deciduous tree and an evergreen tree on a piece of paper,
instructing them to include all parts of a plant (root, stem, branch, and leaf).
Have students share their drawings and identify the parts of their trees
while sharing. Their classmates may also want to guess where the parts are
located on the drawing.

#### **Deciduous vs. Evergreen**

#### Materials: Chart paper, chalkboard, or whiteboard

• Compare and contrast deciduous trees and evergreen trees. What do these plants have in common? How are they different? Record student answers on a Venn diagram.

#### **Teacher Choice**

 Reread a particular read-aloud to students in order to review important domain concepts.

#### **On Stage: Johnny Appleseed**

#### Materials: Drawing paper, drawing tools

Have students draw a picture of what they think is the most important or
most interesting thing they learned about Johnny Appleseed. Divide the class
into groups and have students take turns acting out their drawings. Make
sure students describe what they are doing and encourage them to use key
vocabulary words like seed or fruit.

#### Kindergarten | Knowledge 4

## Domain Assessment

#### NOTE TO TEACHER

This domain assessment evaluates each student's retention of domain, academic vocabulary words, and the core content targeted in *Plants*. The results should guide review and remediation the following day.

There are four parts to this assessment. You may choose to do the parts in more than one sitting if you feel this is more appropriate for your students. Part I (Vocabulary Assessment) is divided into two sections: the first assesses domain-related vocabulary and the second assesses academic vocabulary. Parts II, III, and IV of the assessment address the core content targeted in *Plants*.

#### PART I (ACTIVITY PAGE DA.1)

#### TEKS K.6.F; TEKS K.8.D.i

I am going to ask a question using a word you have heard in the read-alouds. If the answer to the question is yes, circle thumbs up. If the answer is no, circle thumbs down. I will ask each question two times. Let's do number one together.

- 1. **Plants:** Are plants living things that need food, water, air, and light to live? (thumbs up)
- 2. **Soil:** Is soil the part of the ground where plants are planted and grow? (thumbs up)
- 3. **Sapling:** Is a sapling a young tree? (thumbs up)
- 4. **Pollination:** Is pollination sprinkling water over a plant? (thumbs down)
- 5. **Seeds:** Are seeds the beginning of a new plant? (thumbs up)
- 6. **Evergreen:** Do the leaves of evergreen trees change colors? (thumbs down)
- 7. **Deciduous:** Do deciduous trees lose their leaves in the fall? (thumbs up)
- 8. **Roots:** Do the roots of a plant hold the plant in place in the soil? (thumbs up)
- 9. **Petals:** Do plants drink water through their petals? (thumbs down)
- 10. **Crops:** Are crops plants that people eat and use, like wheat and corn? (thumbs up)

I am going to ask more questions using other words you have heard in the read-alouds. If the answer is yes, circle thumbs up. If the answer is no, circle thumbs down. I will ask each question two times.

- 11. **Provide:** Do plants provide people with oxygen and food? (thumbs up)
- 12. **Gigantic:** If something is gigantic, does that mean it is very small? (thumbs down)
- 13. **Mature:** Does a root mature into a seed? (thumbs down)
- 14. **Survival:** Do plants need water and light for survival? (thumbs up)
- 15. **Bare:** Do the branches of deciduous trees become bare when they lose their leaves in the fall? (*thumbs up*)

#### PART II (ACTIVITY PAGE DA.2)

TEKS K.6.F; TEKS K.8.D.i; TEKS K.8.D.ii

**Note:** Each student will need crayons in the following colors: dark brown, light brown, dark green, light green, red, blue, and yellow.

Color the part of the plant I describe with the color I tell you to use.

- 1. Color dark brown the part of the plant that keeps it in the ground and soaks up nutrients and water. (roots)
- 2. Color light brown the part of the plant that is sealed in a protective covering and will grow into a new plant. (seed)
- 3. Color dark green the part of the plant that supports it and carries water and nutrients to the other parts of the plant. (stem)
- 4. Color light green the part of the plant that makes food during photosynthesis. (leaves)
- 5. Color red the part of the plant that makes the seeds. (flower)
- 6. You learned that plants need three things to live. One is food. On the picture of your flower, draw the other two things that plants need. (water, light)

#### PART III (ACTIVITY PAGE DA.3)

TEKS K.6.F; TEKS K.8.D.i

Listen carefully for the following things I would like you to circle.

1. Circle the things that we get from plants. (apple, corn, bouquet)

2. Look at the two pictures of trees on your activity page. Think about the differences between these trees. Draw a brown circle around the tree that is a deciduous tree. Draw a green circle around the tree that is an evergreen tree.

#### PART IV (ACTIVITY PAGE DA.4) TEKS K.6.F; TEKS K.8.D.i

I am going to ask some questions. If the answer to the question is yes, circle thumbs up. If the answer is no, circle thumbs down. I will ask each question two times. Let's do number one together.

- 1. Are all plants exactly the same? (thumbs down)
- 2. Do plants make their own food? (thumbs up)
- 3. Do both deciduous and evergreen trees shed, or lose, all of their leaves in the fall? (thumbs down)
- 4. When Polly the Honeybee goes from flower to flower for food, is she also helping with pollination? (thumbs up)
- 5. Was George Washington Carver known as the "plant doctor"? (thumbs up)

#### Kindergarten | Knowledge 4

## Culminating Activities

#### **NOTE TO TEACHER**

Please use these two final days to address class results of the Domain Assessment. Based on the results of the Domain Assessment, you may wish to use this class time to provide remediation opportunities that target specific areas of weakness for individual students, small groups, or the whole class.

Alternatively, you may also choose to use this class time to extend or enrich students' experience with domain knowledge. A number of enrichment activities are provided below in order to provide students with opportunities to enliven their experiences with domain concepts.

#### REMEDIATION

You may choose to regroup students according to particular areas of weakness, as indicated by Formative and Domain Assessment results.

Remediation opportunities include:

- targeting Review Activities
- revisiting lesson Applications
- rereading and discussing select read-alouds

#### **ENRICHMENT**

#### Class Book: Plants

#### Materials: Drawing paper, drawing tools

• Tell the whole class, or a group of students, they are going to make a class book to help them remember what they have learned in this domain. Have students brainstorm important information about pollination, as well as deciduous and evergreen plants. Have each student choose one idea to draw in a picture. Bind the pages to make a book to put in the class library for students to read again and again.

#### **Challenge: Captions**

 You may choose to have some students write captions for their class book pictures.

#### **Grow a Potato Plant**

Materials: Potato that is starting to sprout eyes; glass of water; toothpicks; potting soil; container

• Tell students that the potatoes we eat are used to store nutrients by the potato plant. Explain that you can grow a potato plant from a potato. Place the sprouted end of the potato into a glass of water, supported by toothpicks so that the potato is resting in the water. Place the supported potato in a full glass of water on a warm, sunny windowsill. Make sure the glass stays full of water. The class can watch the potato sprout roots and grow leaves. Once the potato has sprouted leaves, you may wish to transfer the plant into a container filled with potting soil.

#### **Edible Plant Parts Collage**

Materials: Baby carrots, celery, spinach, strawberries, sunflower seeds, paper

**Note:** Be sure to check your school's policy regarding food distribution and allergies.

Tell students they will be using these yummy foods to create an edible plant
on their paper. Have students place three baby carrots at the bottom of the
paper as the roots. The students should then place the celery as the stem,
the spinach as the leaves, and the sunflower seeds as the seeds in the center
of the strawberries. Have students talk about each plant part and what it
does to help the plant survive before enjoying their creation.

#### **Domain-Related Trade Book or Student Choice**

Materials: Trade book

 Read a trade book to review a particular concept; refer to the books listed in the Introduction. You may also choose to have students select a read-aloud to be heard again.

#### On Stage: Johnny Appleseed

Materials: Drawing paper, drawing tools

Have students draw a picture of what they think is the most important or
most interesting thing they learned about Johnny Appleseed. Divide the class
into groups and have students take turns acting out their drawings. Make
sure students describe what they are doing and encourage them to use key
vocabulary words like seed or fruit.

#### **Exploring Student Resources**

#### Materials: Domain-related student websites

• Pick appropriate websites for further exploration of plants.

#### **Videos of Plants**

#### Materials: Videos of plants

• Use a web browser to carefully search for short (5 minutes or fewer) videos related to the plant topics covered in the domain. Prepare some questions related to the videos. Discuss how watching a video is the same as and different from listening to a read-aloud.

## **Teacher Resources**

Kindergarten Knowledge 4

**Teacher Guide** 

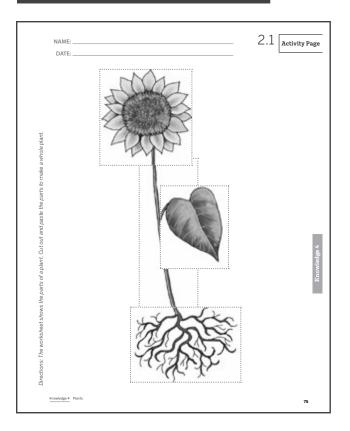
# Kindergarten | Knowledge 4

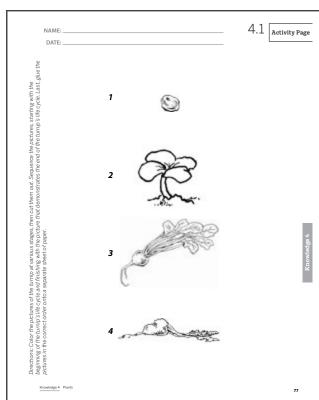
# Teacher Resources

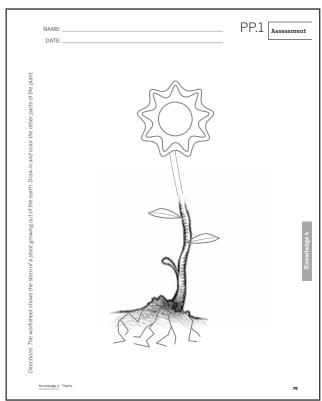
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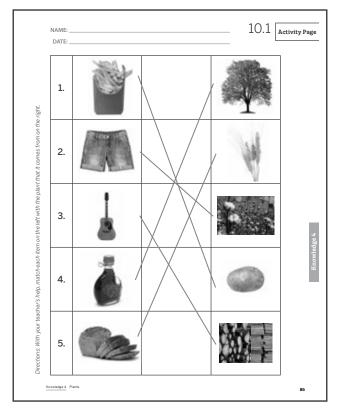
- Activity Book Answer Key
- Texas Essential Knowledge and Skills Correlation Chart
- English Language Proficiency Standards Correlation Chart

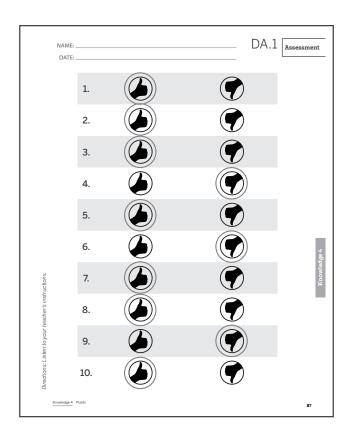
## **ACTIVITY BOOK ANSWER KEY**

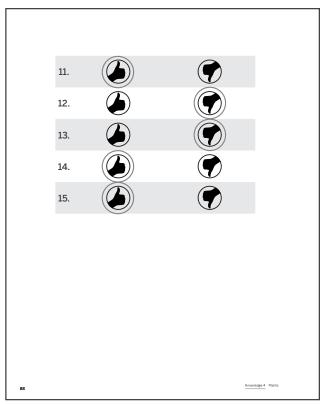


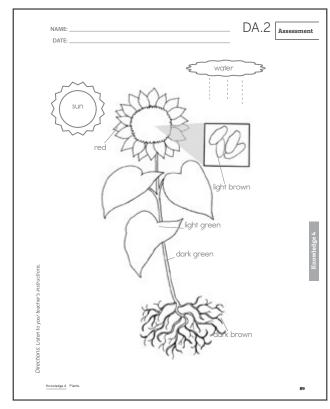


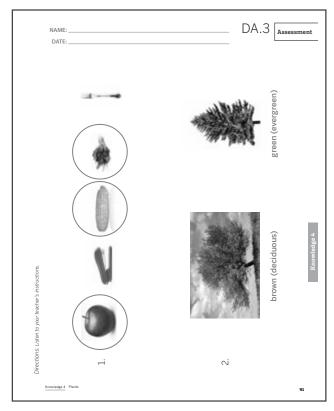


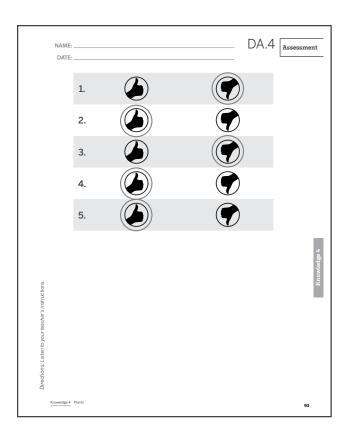












Knowledge 4		Correlation—Teacher's Guide
	nd sustaining foundational language skills: listening, speal s oral language through listening, speaking, and discussio	
TEKS K.1.A	listen actively and ask questions to understand information and answer questions using multi-word responses	D4: p. 5; D4: p. 8; D4: p. 16; D4: p. 19; D4: p. 27; D4: p. 30; D4: p. 39; D4: p. 42; D4: p. 53; D4: p. 56; D4: p. 63; D4: p. 66; D4: p. 72; D4: p. 74; D4: p. 77; D4: p. 96; D4: p. 99; D4: p. 106; D4: p. 109; D4: p. 117; D4: p. 120
TEKS K.1.B	restate and follow oral directions that involve a short, related sequence of actions	
TEKS K.1.C	share information and ideas by speaking audibly and clearly using the conventions of language;	
TEKS K.1.D	work collaboratively with others by following agreed- upon rules for discussion, including taking turns	D4: p. 53; D4: p. 62
TEKS K.1.E	develop social communication such as introducing himself/herself, using common greetings, and expressing needs and wants	
and writing. The	nd sustaining foundational language skills: listening, spea student develops word structure knowledge through phor ommunicate, decode, and spell. The student is expected t	nological awareness, print concepts, phonics, and
(A) demonstrate	phonological awareness by:	
TEKS K.2.A.i	identifying and producing rhyming words	
TEKS K.2.A.ii	recognizing spoken alliteration or groups of words that begin with the same spoken onset or initial sound;	
TEKS K.2.A.iii	identifying the individual words in a spoken sentence;	
TEKS K.2.A.iv	identifying syllables in spoken words	
TEKS K.2.A.v	blending syllables to form multisyllabic words	
TEKS K.2.A.vi	segmenting multisyllabic words into syllables	
TEKS K.2.A.vii	blending spoken onsets and rimes to form simple words	
TEKS K.2.A.viii	blending spoken phonemes to form one-syllable words	
TEKS K.2.A.ix	manipulating syllables within a multisyllabic word	
TEKs K.2.A.x	segmenting spoken one-syllable words into individual phonemes	
(B) demonstrate	and apply phonetic knowledge by:	
TEKS K.2.B.i	identifying and matching the common sounds that letters represent	
TEKS K.2.B.ii	using letter-sound relationships to decode, including VC, CVC, CCVC, and CVCC words	
TEKS K.2.B.iii	recognizing that new words are created when letters are changed, added or deleted such as $it - pit - tip - tap$	
TEKS K.2.B.iv	identifying and reading at least 25 high-frequency words from a research-based list.	

Knowledge 4	4	Correlation—Teacher's Guide
(C) demonstrat	te and apply spelling knowledge by:	
TEKS K.2.C.i	spelling words with VC, CVC, and CCVC	
TEKS K.2.C.ii	spelling words using sound-spelling patterns; and	
TEKS K.2.C.iii	spelling high-frequency words from a research-based list	
(D) demonstrat	te print awareness by:	
TEKS K.2.D.i	identifying the front cover, back cover, and title page of a book	
TEKS K.2.D.ii	holding a book right side up, turning pages correctly, and knowing that reading moves from top to bottom and left to right with return sweep	
TEKS K.2.D.iii	recognizing that sentences are comprised of words separated by spaces and recognizing word boundaries	
TEKS K.2.D.iv	recognizing the difference between a letter and a printed word	
TEKS K.2.D.v	identifying all uppercase and lowercase letters	
TEKS K.2.E	develop handwriting by accurately forming all uppercase and lowercase letters using appropriate directionality	
	and sustaining foundational language skills: listening, spea ewly acquired vocabulary expressively. The student is expec	
TEKS K.3.A	use a resource such as a picture dictionary or digital resource to find words	
TEKS K.3.B	use illustrations and texts the student is able to read or hear to learn or clarify word meanings	D4: p. 16; D4: p. 21; D4: p. 23; D4: p. 24; D4: p. 74; D4: p. 78; D4: p. 117; D4: p. 126
TEKS K.3.C	identify and use words that name actions; directions; positions; sequences; categories such as colors, shapes, and textures; and locations.	D4: p. 74
reading. The sti	and sustaining foundational language skills: listening, spea udent reads grade-appropriate texts independently. The stu with text for increasing periods of time.	
TEKS K.4	self-select text and interact independently with text for increasing periods of time	
	ision skills: listening, speaking, reading, writing, and thinking evelop and deepen comprehension of increasingly complex	
TEKS K.5.A	establish purpose for reading assigned and self- selected texts with adult assistance	D4: p. 16; D4: p. 21; D4: p. 53; D4: p. 57; D4: p. 63; D4: p. 67; D4: p. 74; D4: p. 78; D4: p. 84; D4: p. 89; D4: p. 96; D4: p. 100; D4: p. 117; D4: p. 121
TEKS K.5.B	generate questions about a text before, during, and after reading to deepen understanding and gain information with adult assistance	D4: p. 5; D4: p. 10; D4: p. 12; D4: p. 13; D4: p. 74; D4: p. 78
TEKS K.5.C	make and confirm predictions using text features and structures with adult assistance	
TEKS K.5.D	create mental images to deepen understanding with adult assistance	D4: p. 53; D4: p. 57; D4: p. 58
TEKS K.5.E	make connections to personal experiences, to ideas in other texts, and society with adult assistance	D4: p. 106; D4: p. 110

Knowledge	4	Correlation—Teacher's Guide
TEKS K.5.F	make inferences and use evidence to support understanding with adult assistance	D4: p. 5; D4: p. 10; D4: p. 16; D4: p. 21; D4: p. 39; D4: p. 43; D4: p. 84
TEKS K.5.G	evaluate details to determine what is most important with adult assistance	D4: p. 53; D4: p. 62; D4: p. 63; D4: p. 72; D4: p. 96; D4: p. 100
TEKS K.5.H	synthesize information to create new understanding with adult assistance	D4: p. 96; D4: p. 100; D4: p. 106; D4: p. 116
TEKS K.5.I	monitor comprehension and make adjustments such as re-reading, using background knowledge, checking for visual cues, and asking questions when understanding breaks down with adult assistance	D4: p. 5; D4: p. 11; D4: p. 12; D4: p. 13
	kills: listening, speaking, reading, writing, and thinking usin riety of sources that are read, heard, or viewed. The student	
TEKS K.6.A	describe personal connections to a variety of sources	
TEKS K.6.B	provide an oral, pictorial, or written response to a text	
TEKS K.6.C	use text evidence to support an appropriate response	D4: p. 5; D4: p. 9; D4: p. 16; D4: p. 21; D4: p. 106; D4: p. 110; D4: p. 116
TEKS K.6.D	retell texts in ways that maintain meaning	D4: p. 16; D4: p. 27; D4: p. 31; D4: p. 37; D4: p. 53; D4: p. 57; D4: p. 74; D4: p. 83
TEKS K.6.E	interact with sources in meaningful ways such as illustrating or writing	D4: p. 16; D4: p. 26; D4: p. 27; D4: p. 37; D4: p. 39; D4: p. 48; D4: p. 84; D4: p. 94; D4: p. 96; D4: p. 106; D4: p. 117; D4: p. 126
TEKS K.6.F	respond using newly acquired vocabulary as appropriate	D4: p. 5; D4: p. 10; D4: p. 14; D4: p. 16; D4: p. 21; D4: p. 27; D4: p. 31; D4: p. 39; D4: p. 43; D4: p. 53; D4: p. 57; D4: p. 63; D4: p. 67; D4: p. 72; D4: p. 74; D4: p. 78; D4: p. 84; D4: p. 89; D4: p. 96; D4: p. 100; D4: p. 106; D4: p. 110; D4: p. 117; D4: p. 121
recognizes and	nres: listening, speaking, reading, writing, and thinking using lanalyzes literary elements within and across increasingly of the student is expected to:	
TEKS K.7.A	discuss topics and determine the basic theme using text evidence with adult assistance	
TEKS K.7.B	identify and describe the main character(s)	D4: p. 74; D4: p. 78
TEKS K.7.C	identify the elements of plot development including the main events, the problem, and the resolution for texts read aloud with adult assistance	D4: p. 39; D4: p. 43; D4: p. 74; D4: p. 78
TEKS K.7.D	describe the setting	
and analyzes g	nres: listening, speaking, reading, writing, and thinking usin enre-specific characteristics, structures, and purposes with classical, and diverse texts. The student is expected to:	
TEKS K.8.A	demonstrate knowledge of distinguishing characteristics of well-known children's literature, such as folktales, fables, fairy tales, and nursery rhymes	D4: p. 74; D4: p. 77
TEKS K.8.B	discuss rhyme and rhythm in nursery rhymes and a variety of poems	

		Correlation—Teacher's Guide
(D) recognize ch	aracteristics and structures of informational text, includir	ng
TEKS K.8.D.i	the central idea and supporting evidence, with adult assistance	D4: p. 16; D4: p. 21
TEKS K.8.D.ii	titles and simple graphics to gain information	D4: p. 27; D4: p. 31; D4: p. 34; D4: p. 37; D4: p. 63; D4: p. 67; D4: p. 84; D4: p. 87
TEKS K.8.D.iii	the steps in a sequence with adult assistance.	D4: p. 39; D4: p. 48; D4: p. 84; D4: p. 89
TEKS K.8.E	recognize characteristics of persuasive text with adult assistance and state what the author is trying to persuade the reader to think or do	
TEKS K.8.F	recognize characteristics of multimodal and digital texts	
inquiry to analyz	pose and craft: listening, speaking, reading, writing, and the the authors' choices and how they influence and communication of the com	unicate meaning within a variety of texts. The student
TEKS K.9.A	discuss with adult assistance the author's purpose for writing text	
TEKS K.9.B	discuss with adult assistance how the use of text structure contributes to the author's purpose	
TEKS K.9.C	discuss with adult assistance the author's use of print and graphic features to achieve specific purposes	D4: p. 27; D4: p. 31; D4: p. 34
TEKS K.9.D	discuss with adult assistance how the author uses words that help the reader visualize	D4: p. 53; D4: p. 57; D4: p. 58
TEKS K.9.E	listen to and experience first- and third-person texts	D4: p. 117; D4: p. 121
	n: listening, speaking, reading, writing, and thinking using ess recursively to compose multiple texts that are legible a	
TEKS K.10.A	plan by generating ideas for writing through class discussions and drawings	
TEKS K.10.B	develop drafts in oral, pictorial, or written form by organizing ideas	
TEKS K.10.C	revise drafts by adding details in pictures or words	
(D) edit drafts w	ith adult assistance using standard English conventions, in	ncluding:
TEKS K.10.D.i	complete sentences	
TEKS K.10.D.ii	verbs	
TEKS K.10.D.iii	singular and plural nouns	
TEKS K.10.D.iv	adjectives, including articles	
	prepositions	
	prepositions	
TEKS K.10.D.v	pronouns, including subjective, objective, and possessive cases	
TEKS K.10.D.vi	pronouns, including subjective, objective, and	
TEKS K.10.D.vi TEKS K.10.D.vii	pronouns, including subjective, objective, and possessive cases	
TEKS K.10.D.v  TEKS K.10.D.vi  TEKS K.10.D.vii  TEKS K.10.D.viii  TEKS K.10.D.viii	pronouns, including subjective, objective, and possessive cases capitalization of the first letter in a sentence and name	

Knowledge 4		Correlation—Teacher's Guide
(11) Composition: listening, speaking, reading, writing, and thinking using multiple texts—genres. The student uses genre characteristics and craft to compose multiple texts that are meaningful. The student is expected to:		
TEKS K.11.A	dictate or compose literary texts, including personal narratives	
TEKS K.11.B	dictate or compose informational texts	D4: p. 84; D4: p. 94; D4: p. 96; D4: p. 105; D4: p. 117; D4: p. 126
(12) Inquiry and research: listening, speaking, reading, writing, and thinking using multiple texts. The student engages in both short-term and sustained recursive inquiry processes for a variety of purposes. The student is expected to:		
TEKS K.12.A	generate questions for formal and informal inquiry with adult assistance	
TEKS K.12.B	develop and follow a research plan with adult assistance	
TEKS K.12.C	gather information from a variety of sources with adult assistance	
TEKS K.12.D	demonstrate understanding of information gathered with adult assistance	
TEKS K.12.E	use an appropriate mode of delivery, whether written, oral, or multimodal, to present results	

#### Correlation—Teacher's Guide Knowledge 4 (1) Cross-curricular second language acquisition/learning strategies. The ELL uses language learning strategies to develop an awareness of his or her own learning processes in all content areas. In order for the ELL to meet grade-level learning expectations across the foundation and enrichment curriculum, all instruction delivered in English must be linguistically accommodated (communicated, sequenced, and scaffolded) commensurate with the student's level of English language proficiency. The student is expected to: ELPS 1.A use prior knowledge and experiences to understand meanings in English ELPS 1.B monitor oral and written language production and employ self-corrective techniques or other resources use strategic learning techniques such as concept ELPS 1.C mapping, drawing, memorizing, comparing, contrasting, and reviewing to acquire basic and gradelevel vocabulary ELPS 1.D speak using learning strategies such as requesting assistance, employing non-verbal cues, and using synonyms and circumlocution (conveying ideas by defining or describing when exact English words are not known) ELPS 1.E internalize new basic and academic language by using D4: p. 14, D4: p. 25, D4: p. 46, D4: p. 62, D4: p. 71, D4: and reusing it in meaningful ways in speaking and p. 72. writing activities that build concept and language D4: p. 81, D4: p. 92, D4: p. 99, D4: p. 103, D4: p. 109, attainment D4: p. 114. D4: p. 116. D4: p. 120. D4: p. 124 FLPS 1 F use accessible language and learn new and essential language in the process ELPS 1.G demonstrate an increasing ability to distinguish between formal and informal English and an increasing knowledge of when to use each one commensurate with grade-level learning expectations ELPS 1.H develop and expand repertoire of learning strategies D4: p. 30, D4: p. 35 such as reasoning inductively or deductively, looking for patterns in language, and analyzing sayings and expressions commensurate with grade-level learning expectations (2) Cross-curricular second language acquisition/listening. The ELL listens to a variety of speakers including teachers, peers, and electronic media to gain an increasing level of comprehension of newly acquired language in all content areas. ELLs may be at the beginning, intermediate, advanced, or advanced high stage of English language acquisition in listening. In order for the ELL to meet grade-level learning expectations across the foundation and enrichment curriculum, all instruction delivered in English must be linguistically accommodated (communicated, sequenced, and scaffolded) commensurate with the student's level of English language proficiency. The student is expected to: ELPS 2.A distinguish sounds and intonation patterns of English with increasing ease ELPS 2.B recognize elements of the English sound system in newly acquired vocabulary such as long and short vowels, silent letters, and consonant clusters ELPS 2.C learn new language structures, expressions, and basic D4: p. 14, D4: p. 35 and academic vocabulary heard during classroom instruction and interactions ELPS 2.D monitor understanding of spoken language during D4: p. 14, D4: p. 25, D4: p. 30 classroom instruction and interactions and seek clarification as needed

Knowledge 4	•	Correlation—Teacher's Guide
ELPS 2.E	use visual, contextual, and linguistic support to enhance and confirm understanding of increasingly complex and elaborated spoken language	
ELPS 2.F	listen to and derive meaning from a variety of media such as audio tape, video, DVD, and CD-ROM to build and reinforce concept and language attainment	
ELPS 2.G	understand the general meaning, main points, and important details of spoken language ranging from situations in which topics, language, and contexts are familiar to unfamiliar	D4: p. 13, D4: p. 14, D4: p. 25, D4: p. 60, D4: p. 81, D4: p. 92, D4: p. 99, D4: p. 103, D4: p. 109, D4: p. 114, D4: p. 116, D4: p. 120, D4: p. 124
ELPS 2.H	understand implicit ideas and information in increasingly complex spoken language commensurate with grade-level learning expectations	
ELPS 2.I	demonstrate listening comprehension of increasingly complex spoken English by following directions, retelling or summarizing spoken messages, responding to questions and requests, collaborating with peers, and taking notes commensurate with content and grade-level needs	D4: p. 13, D4: p. 25, D4: p. 60, D4: p. 72
awareness of dir arts and all cont acquisition in sp curriculum, all in	cular second language acquisition/speaking. The ELL speak fferent language registers (formal/informal) using vocabul tent areas. ELLs may be at the beginning, intermediate, adv beaking. In order for the ELL to meet grade-level learning en instruction delivered in English must be linguistically accon with the student's level of English language proficiency. Th	ary with increasing fluency and accuracy in language vanced, or advanced high stage of English language expectations across the foundation and enrichment amodated (communicated, sequenced, and scaffolded)
ELPS 3.A	practice producing sounds of newly acquired vocabulary such as long and short vowels, silent letters, and consonant clusters to pronounce English words in a manner that is increasingly comprehensible	
ELPS 3.B	expand and internalize initial English vocabulary by learning and using high-frequency English words necessary for identifying and describing people, places, and objects, by retelling simple stories and basic information represented or supported by pictures, and by learning and using routine language needed for classroom communication	
ELPS 3.C	speak using a variety of grammatical structures, sentence lengths, sentence types, and connecting words with increasing accuracy and ease as more English is acquired	D4: p. 83
ELPS 3.D	speak using grade-level content area vocabulary in context to internalize new English words and build academic language proficiency	D4: p. 30
ELPS 3.E	share information in cooperative learning interactions	
ELPS 3.F	ask and give information ranging from using a very limited bank of high-frequency, high-need, concrete vocabulary, including key words and expressions needed for basic communication in academic and social contexts, to using abstract and content-based vocabulary during extended speaking assignments	

Knowledge 4		Correlation—Teacher's Guide	
ELPS 3.G	express opinions, ideas, and feelings ranging from communicating single words and short phrases to participating in extended discussions on a variety of social and grade-appropriate academic topics	D4: p. 14, D4: p. 35, D4: p. 46, D4: p. 60, D4: p. 62, D4: p. 71, D4: p. 81, D4: p. 83, D1: p. 92, D4: p. 99, D4: p. 103, D4: p. 109, D4: p. 114, D4: p. 116, D4: p. 120, D4: p. 124, D4: p. 126	
ELPS 3.H	narrate, describe, and explain with increasing specificity and detail as more English is acquired		
ELPS 3.I	adapt spoken language appropriately for formal and informal purposes		
ELPS 3.J	respond orally to information presented in a wide variety of print, electronic, audio, and visual media to build and reinforce concept and language attainment		
increasing level o high stage of Eng foundation and e sequenced, and s	alar second language acquisition/reading. The ELL reads a off comprehension in all content areas. ELLs may be at the elish language acquisition in reading. In order for the ELL to anrichment curriculum, all instruction delivered in English accaffolded) commensurate with the student's level of English as student expectations apply to text read aloud for studentied to:	beginning, intermediate, advanced, or advanced o meet grade-level learning expectations across the must be linguistically accommodated (communicated, lish language proficiency. For kindergarten and grade	
ELPS 4.A	learn relationships between sounds and letters of the English language and decode (sound out) words using a combination of skills such as recognizing soundletter relationships and identifying cognates, affixes, roots, and base words		
ELPS 4.B	recognize directionality of English reading such as left to right and top to bottom		
ELPS 4.C	develop basic sight vocabulary, derive meaning of environmental print, and comprehend English vocabulary and language structures used routinely in written classroom materials		
ELPS 4.D	use prereading supports such as graphic organizers, illustrations, and pretaught topic-related vocabulary and other prereading activities to enhance comprehension of written text		
ELPS 4.E	read linguistically accommodated content area material with a decreasing need for linguistic accommodations as more English is learned		
ELPS 4.F	use visual and contextual support and support from peers and teachers to read grade-appropriate content area text, enhance and confirm understanding, and develop vocabulary, grasp of language structures, and background knowledge needed to comprehend increasingly challenging language	D4: p. 72	
ELPS 4.G	demonstrate comprehension of increasingly complex English by participating in shared reading, retelling or summarizing material, responding to questions, and taking notes commensurate with content area and grade level needs	D4: p. 25, D4: p. 48	
ELPS 4.H	read silently with increasing ease and comprehension for longer periods		

Knowledge 4		Correlation—Teacher's Guide
ELPS 4.I	demonstrate English comprehension and expand reading skills by employing basic reading skills such as demonstrating understanding of supporting ideas and details in text and graphic sources, summarizing text, and distinguishing main ideas from details commensurate with content area needs	
ELPS 4.J	demonstrate English comprehension and expand reading skills by employing inferential skills such as predicting, making connections between ideas, drawing inferences and conclusions from text and graphic sources, and finding supporting text evidence commensurate with content area needs	
ELPS 4.K	demonstrate English comprehension and expand reading skills by employing analytical skills such as evaluating written information and performing critical analyses commensurate with content area and grade-level needs	
ELPS 5.A	learn relationships between sounds and letters of the English language to represent sounds when writing in English	
ELPS 5.B	write using newly acquired basic vocabulary and content-based grade-level vocabulary	D4: p. 26, D4: p. 38, D4: p. 48
ELPS 5.C	spell familiar English words with increasing accuracy, and employ English spelling patterns and rules with increasing accuracy as more English is acquired	
ELPS 5.D	edit writing for standard grammar and usage, including subject-verb agreement, pronoun agreement, and appropriate verb tenses commensurate with gradelevel expectations as more English is acquired	
ELPS 5.E	employ increasingly complex grammatical structures in content area writing commensurate with grade level expectations such as (i) using correct verbs, tenses, and pronouns/antecedents; (ii) using possessive case (apostrophe -s) correctly; and, (iii) using negatives and contractions correctly	
ELPS 5.F	write using a variety of grade-appropriate sentence lengths, patterns, and connecting words to combine phrases, clauses, and sentences in increasingly accurate ways as more English is acquired	D4: p. 48
ELPS 5.G	narrate, describe, and explain with increasing specificity and detail to fulfill content area writing needs as more English is acquired	D4: p. 38, D4: p. 94, D4: p. 105

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