

Unit 5

The Deep
Blue World:
Oceans



Grade 5

Unit 5

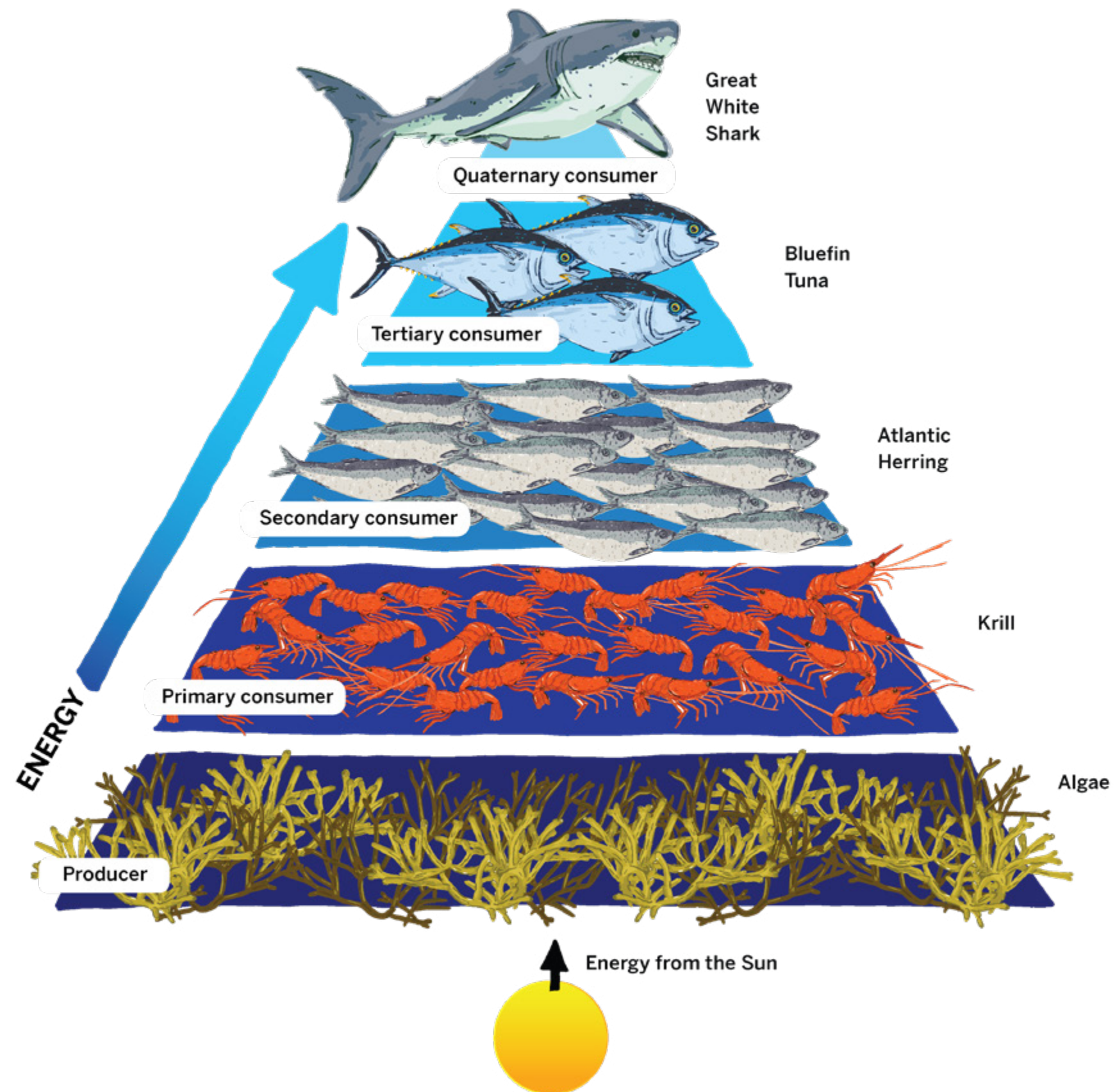
The Deep Blue World: Oceans

Visual Supports for Teaching

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Trophic Pyramid



Coral Reef



Kelp Forest



Estuary



Mangrove Forest



Open Ocean



Deep Sea



Bio– Words

Add the prefix *bio–* to the words listed on the left. Use what you just learned about the meaning of *bio–* to match the word to its definition.

Bio–

___ chemist

energy made from living matter

___ degradable

a person who studies chemical processes in living things

___ fuel

a substance that can be broken down by living organisms

Model Paragraph

Model Paragraph: Ocean Ecosystems

Oceans contain many places for living creatures to call home, known as ecosystems. An ecosystem is a complex system of living things that rely on each other. One example of an ocean ecosystem is a tide pool. Tide pools are shallow areas of water that can contain animals such as snails and crabs, as well as plants such as seagrass and algae. Tide pools change with the level of the water. They appear and disappear as the tide rises and falls. In addition to tide pools, the ocean contains many more interesting ecosystems filled with other amazing creatures for us to discover.

Revising and Editing Checklist

Revision Checklist		
Sentence Variety	<div>Do most of your sentences sound different?</div> <div><input type="checkbox"/> Check that they are all on topic</div>	<div>Are your sentences made up of mostly the same words and phrases?</div> <div><input type="checkbox"/> Substitute new words and phrases to avoid repetition</div>
Clarity	<div>Will your reader understand your ideas?</div> <div><input type="checkbox"/> Check that your supporting details explain the topic</div>	<div>Will your reader understand your words?</div> <div><input type="checkbox"/> Explain words that only relate to your topic and aren't used in everyday speech</div>
Editing Checklist		
Capitalization	Are proper nouns and the start of each sentence capitalized?	
Punctuation	Does each sentence end in punctuation?	
Spelling	Are all your words spelled correctly?	

Photo– Words

photo–

photocopy

a particle of light, and other kinds, of radiation

photojournalism

through photographs

photon

make a copy using light

Micro– Words

Use what you know about the word part *micro–* to match the words to their definitions.

micro–

microbe	a device that amplifies a small or quiet voice
microphone	to direct the small details of a another's task or work
micromanage	a very small organism that can be seen through a microscope

Model Paragraph (Annotated)

Model Paragraph: Ocean Ecosystems

Detail Explanation

Main idea Oceans contain many places for living creatures to call home, known as ecosystems. An ecosystem is a complex system of living things that rely on each other. One example of an ocean ecosystem is tide pool. Tide pools are shallow areas of water that can contain animals such as snails and crabs, as well as plants such as seagrass and algae. Tide pools change with the level of the water. They appear and disappear as the tide rises and falls. In addition to tidepools, the ocean contains many more interesting ecosystems filled with other amazing creatures for us to discover.

Supporting Detail

Conclusion

Paragraph Planning Page

Paragraph Planning Page: Sharing the Seas	
Read the prompt and gather information from chapter 9 text “Sharing the Seas” to use in your response.	
Select an important part of Leena Jung’s work. Describe the work and its importance to the ocean ecosystem of her area.	
<ul style="list-style-type: none">• Fill in the main idea you want to include to organize your response in the left column.• Fill in details from the text to support the main idea in the right column.	
The Main Idea You Are Explaining (Your Words)	Supporting Details from the Text (Quotations or Paraphrasing)

Group Roles

Manager: keeps the group on task and on time

- Read the directions to the group. Remind your classmates, as needed.
- Keep track of how much time you have left to work.

Recorder: writes the group's work on the recording sheet

- Fill in the group's notes on the recording sheet.
- Check the group's written work before finishing.

Reader: reads text aloud to the group

- Read the text twice to the group.
- Help locate vocabulary in the glossary.

Group Recording Sheet Model

Recording Sheet	
Main Idea	Supporting Details

Writing Prompt

Explain how [your chosen animal here] survives and contributes to the ecosystem where it lives.

Model Essay

Model Essay: Animal and Ecosystems

Vampire Squid

The vampire squid is a unique creature from the deep sea. The vampire squid is not really a vampire or a squid. Vampire squid have lived in the deep sea for over 165 million years.

The word *vampire* in its name comes from a movement it can do with its arms. Vampire squid have webbed arms. They use their arms to cover themselves like a cape. When vampire squid are startled, they cover up inside these webbed arms.

A vampire squid does not drink blood or even hunt. It eats marine snow falling through the water to the ocean floor. Marine snow is detritus of other organisms. Vampire squid are detritivores that clean the ocean floor by eating the marine snow. Detritivores don't need sunlight for photosynthesis or to hunt, so they have plenty of food in their deep ocean ecosystem.

The vampire squid is a unique animal. Scientists first called it a squid but later thought it was a kind of octopus. The vampire squid is actually not an octopus. Scientists eventually gave it its own category.

Vampire squid are unique and fascinating animals. They have existed for over 165 million years. Vampire squid are detritivores adapted to survive in the deep dark water for many more years.

Ocean Animal Display

You will create a **multimedia** display. Examples of media include drawings and diagrams.

Find or create two pieces of multimedia to accompany your writing. Include some of the important information about your animal and its ecosystem.

South America: The Inca



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