

Amplify Desmos Math

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# Kindergarten

Unit 1









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Unit Prep Packet





# Centers Resources

	Stage	Page Type	Quantity	Single/ Double-sided	Notes
 <b>Connecting Cubes</b>	Stage 1	No printed materials required			
 <b>Pattern Blocks</b>	Stage 1	No printed materials required			
 <b>Solid Shapes</b>	Stage 1	No printed materials required			
 <b>Solid Shapes</b>	Stage 2	Puzzles A–J	1 set per pair	Double-sided	<b>Used again in:</b> Solid Shapes, Stage 2, Unit 7
 <b>Connecting Cubes</b>	Stage 2	Connecting Cubes Cards	1 set per pair	Single-sided	
 <b>Pattern Blocks</b>	Stage 2	Puzzles A–J	1 set per pair	Double-sided	
 <b>Pattern Blocks</b>	Stage 3	Cards A–J	1 set per pair	Double-sided	<b>Used again in:</b> Pattern Blocks, Stage 3, Unit 3
 <b>Connecting Cubes</b>	Stage 3	Mats A–J	1 set per pair	Double-sided	

Student direction sheets are provided for each Center Stage for printing but are not required. Some centers make use items from the manipulative kit or other readily available classroom materials. Use the lesson prep checklist to gather the additional materials as needed.



# Common Centers Resources

	Quantity	Single/ Double-sided	Notes
<b>Work Mat</b>	1 per student or 1 per pair	Single-sided	<b>Use for:</b> Connecting Cubes, Stage 1 and 2; Pattern Blocks, Stage 1 and 3; and Solid Shapes, Stage 1 and 2.

## Lesson Resources

Lesson	PDF	Quantity	Single/ Double-sided	Notes
1, 2, 3, 4, 10	Visual Display PDF, <i>Math Tools Images</i>	1 per class	Single-sided	Pre-cut image A before Lesson 1. Pre-cut image B before Lesson 2. Pre-cut image C before Lesson 3. Pre-cut image D and E before Lesson 4. Pre-cut image F before Lesson 10.
6	Activity 2 PDF, <i>Looking for Small Groups</i>	1 per pair	Double-sided	
7	Activity 1 PDF, <i>Different Groups, Same Quantity</i>	1 per pair	Single-sided	
7	Activity 2 PDF, <i>Matching Groups</i>	2 sets per pair	Single-sided	Pre-cut the cards before the activity.
10	Activity 1 PDF, <i>Skye's Polka Dot Shoes</i>	1 per student	Single-sided	
10	Activity 2 PDF, <i>Finding and Making a Match</i>	1 per pair	Single-sided	
11	Activity 2 PDF, <i>Are There Enough? Part 1.</i>	1 per student	Single-sided	
12	Activity 1 PDF, <i>Are There Enough? Part 2.</i>	1 per pair	Single-sided	
12	Activity 2 PDF, <i>Getting Enough</i>	1 per pair	Single-sided	
17	Activity 1 PDF, <i>How Many Are There?</i>	1 per student	Single-sided	
17	Activity 2 PDF, <i>Drawing to Show How Many</i>	1 per pair	Single-sided	

Amplify Desmos Math

KINDERGARTEN

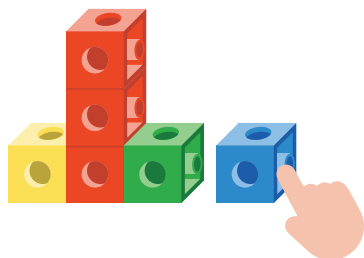
# Center Resources



# Connecting Cubes

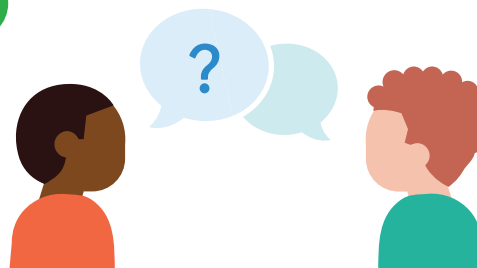
Stage 1

1



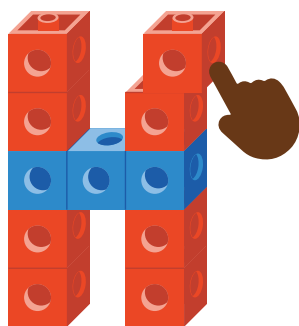
Explore the connecting cubes.

2




Ask your partner what they did with the connecting cubes.

3



Continue exploring the connecting cubes.

Let's explore using connecting cubes.

Pairs 

You'll need . . .



connecting cubes



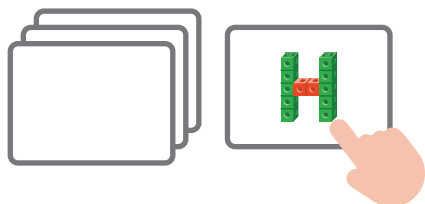
Work Mat



# Connecting Cubes

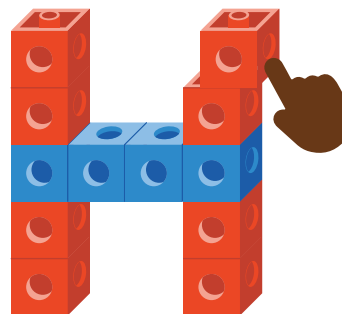
Stage 2

1



Choose a shape card.

2



Build an object to match the shape card.

3



Talk with your partner about your designs.

Let's build shapes using connecting cubes.

Pairs

You'll need . . .



connecting cubes



Connecting Cube Cards



Work Mat

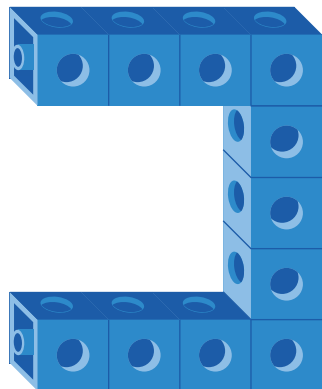


# Connecting Cubes

Stage 2

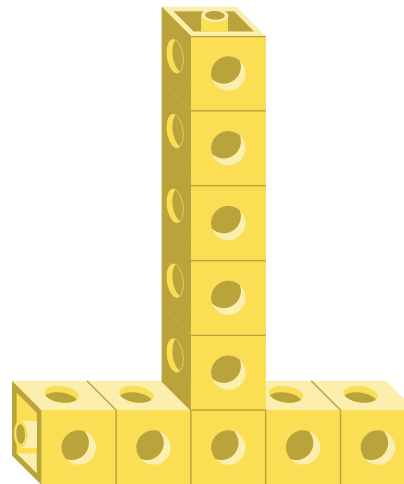
✂️ **Directions:** Make one copy per pair. Pre-cut the cards and distribute them so that each pair of students receives one set of cards.

A



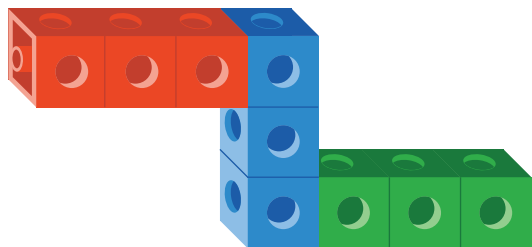
Connecting Cubes Stage 2

B



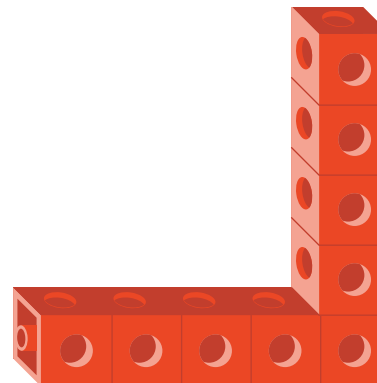
Connecting Cubes Stage 2

C



Connecting Cubes Stage 2

D



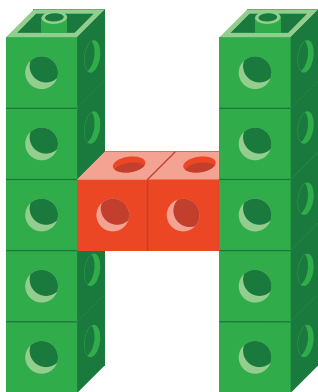
Connecting Cubes Stage 2



# Connecting Cubes

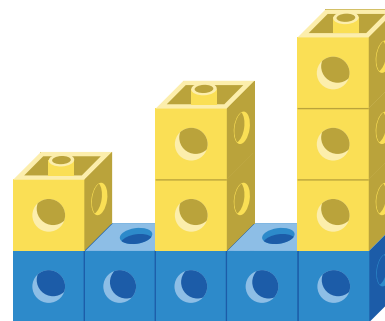
Stage 2

E



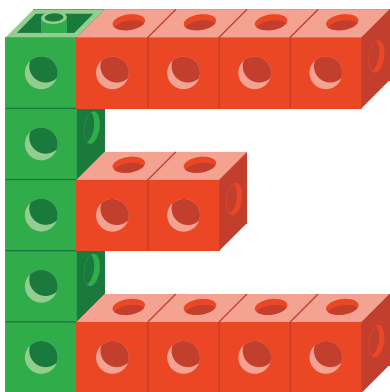
Connecting Cubes Stage 2

F



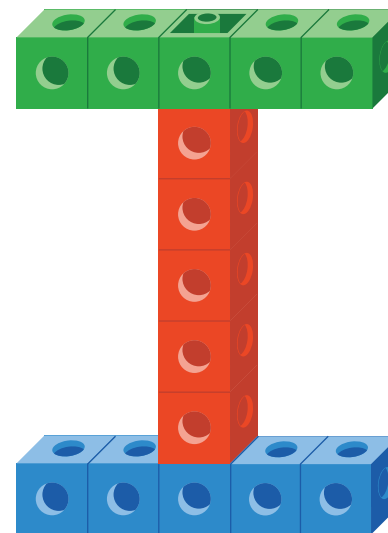
Connecting Cubes Stage 2

G



Connecting Cubes Stage 2

H



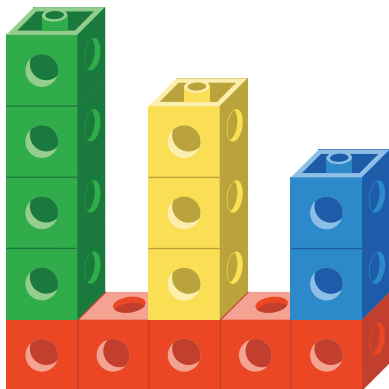
Connecting Cubes Stage 2



# Connecting Cubes

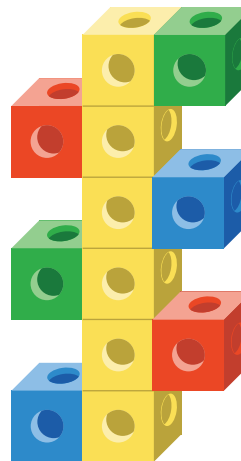
Stage 2

I



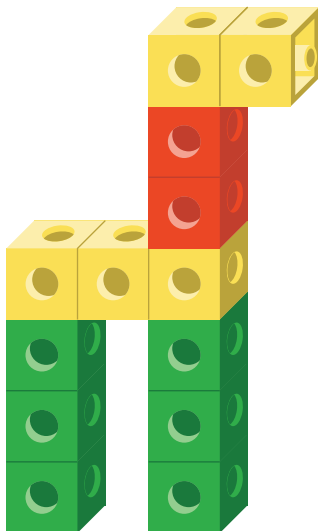
Connecting Cubes Stage 2

J



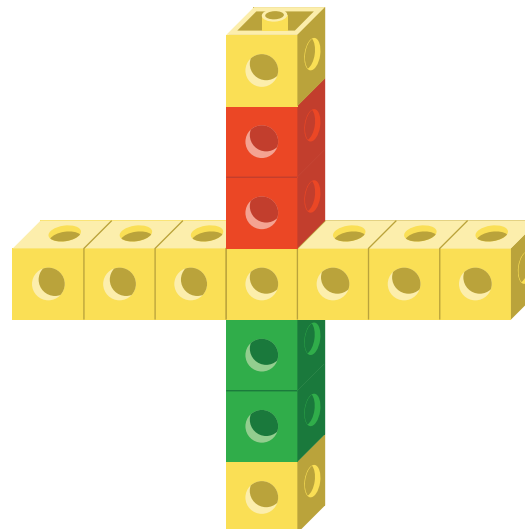
Connecting Cubes Stage 2

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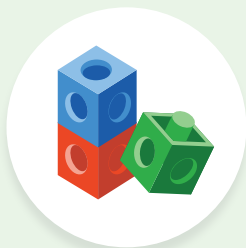


Connecting Cubes Stage 2

L



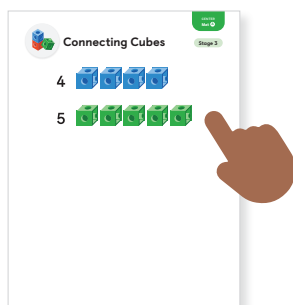
Connecting Cubes Stage 2



# Connecting Cubes

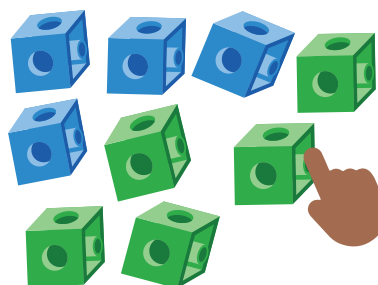
Stage 3

1



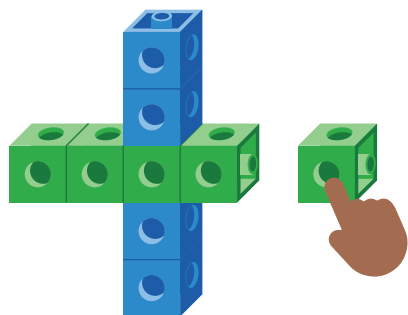
Choose a Mat.

2



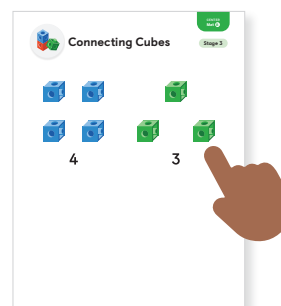
Make matching groups of each color of connecting cubes.

3



Use the connecting cubes to build something.

4



Talk with your partner about what they built. Then choose another Mat.

Let's build shapes using connecting cubes.

Pairs

You'll need . . .



connecting cubes



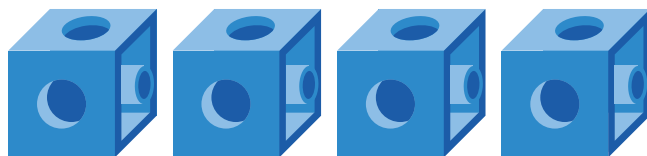
Mats A–J



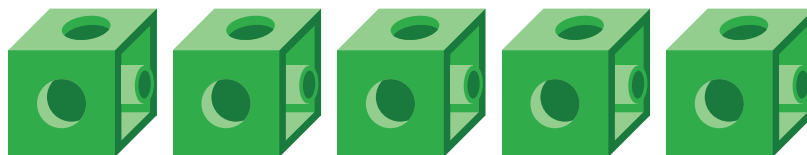
# Connecting Cubes

Stage 3

4



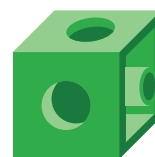
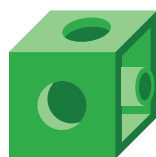
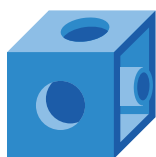
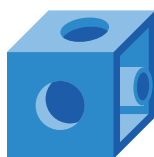
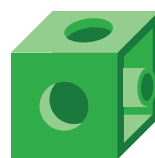
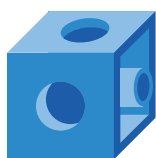
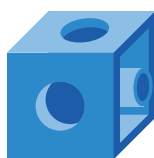
5





# Connecting Cubes

Stage 3



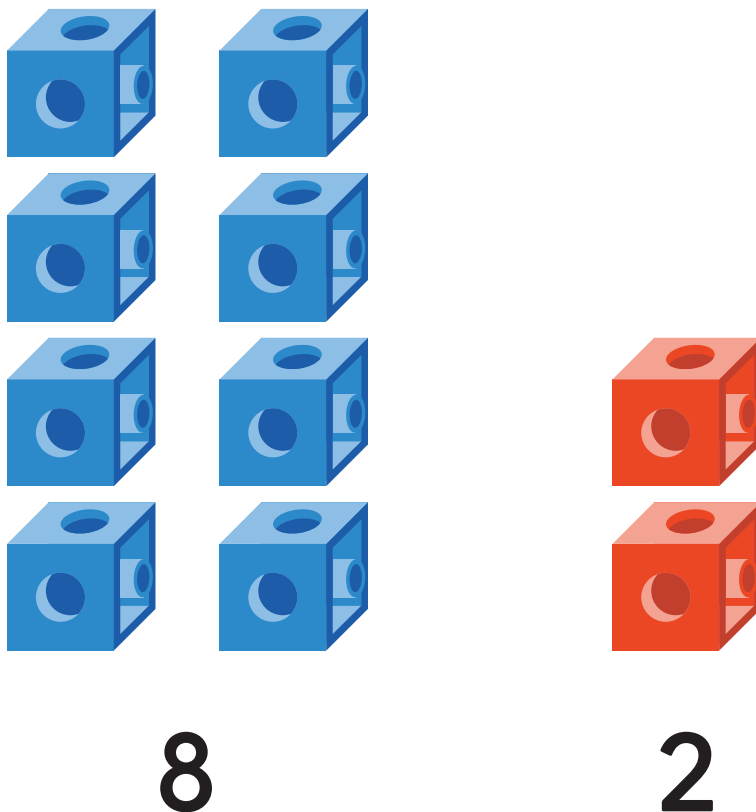
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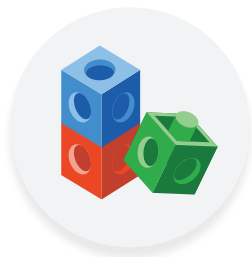
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# Connecting Cubes

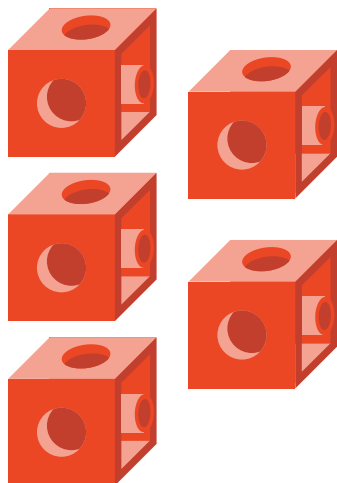
Stage 3



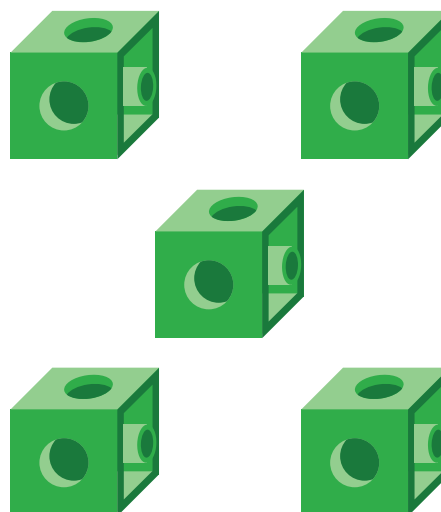


# Connecting Cubes

Stage 3



5



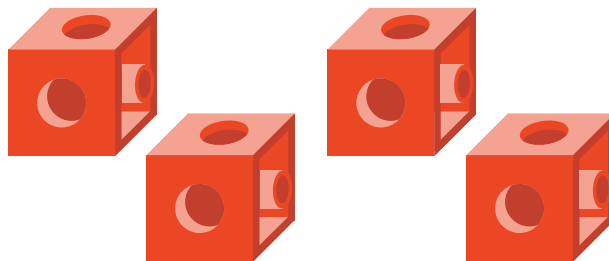
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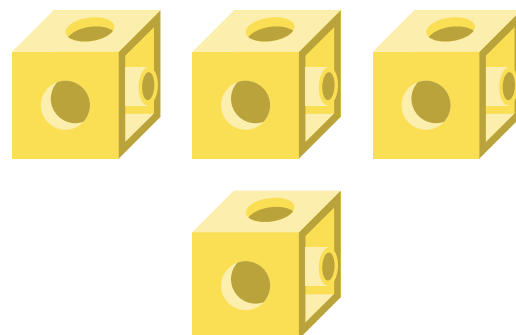
# Connecting Cubes

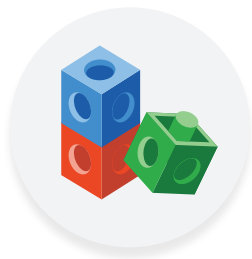
Stage 3

4



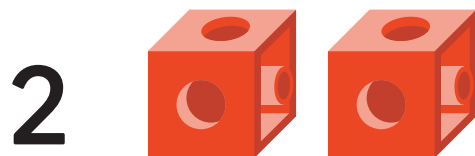
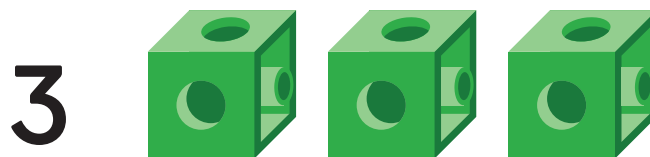
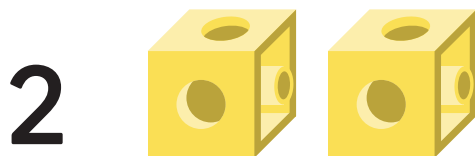
4





# Connecting Cubes

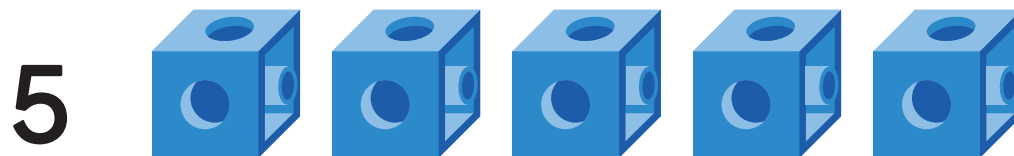
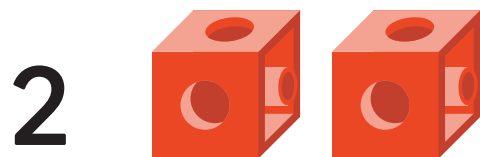
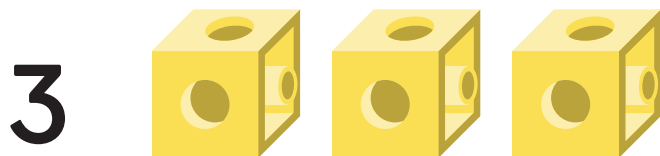
Stage 3

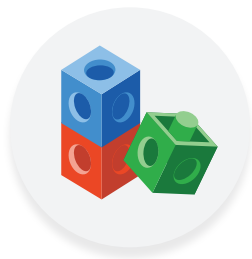




# Connecting Cubes

Stage 3

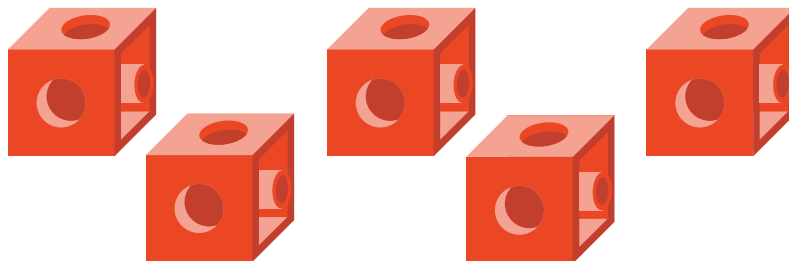




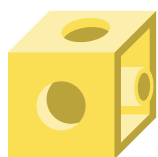
# Connecting Cubes

Stage 3

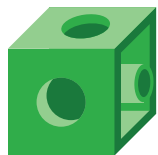
5



1



1

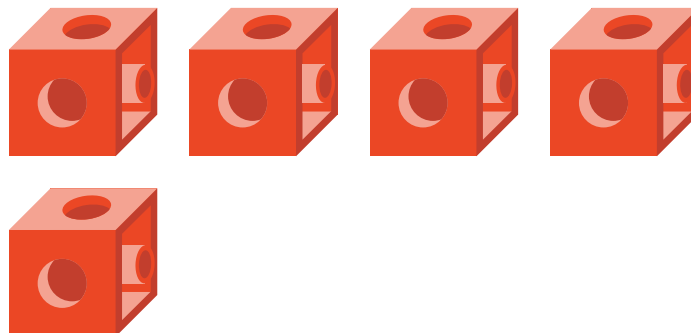




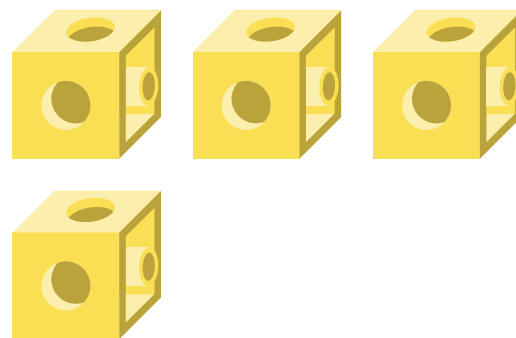
# Connecting Cubes

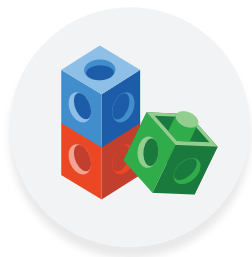
Stage 3

5



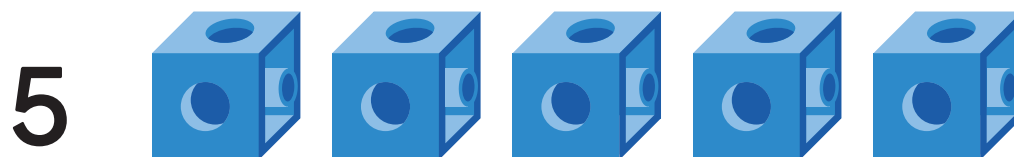
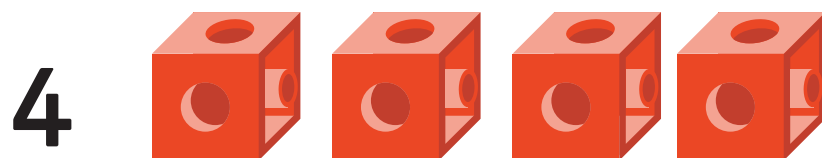
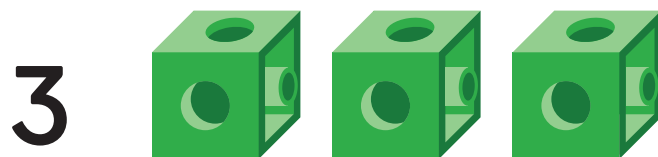
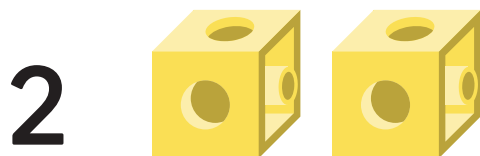
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# Connecting Cubes

Stage 3

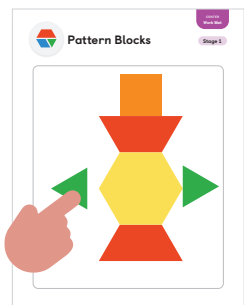




# Pattern Blocks

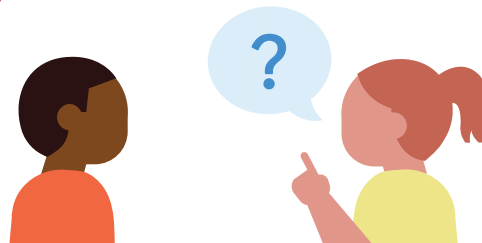
Stage 1

1



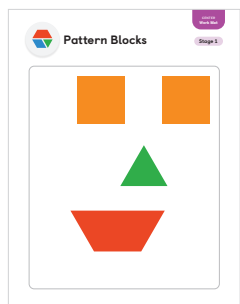
Explore the pattern blocks.

2



Ask your partner what they did with the pattern blocks.

3



Continue exploring the pattern blocks.

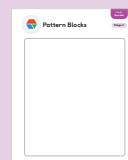
Let's explore pattern blocks.

**Pairs**

**You'll need . . .**



pattern blocks

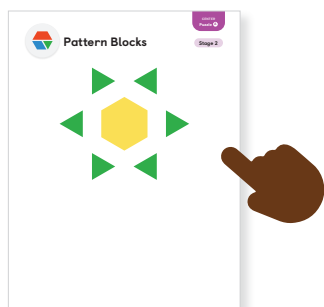


Work Mat



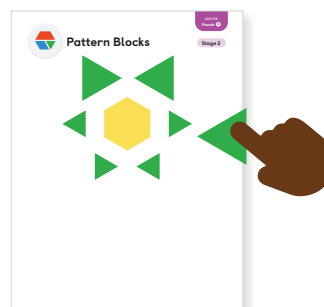
# Pattern Blocks

1



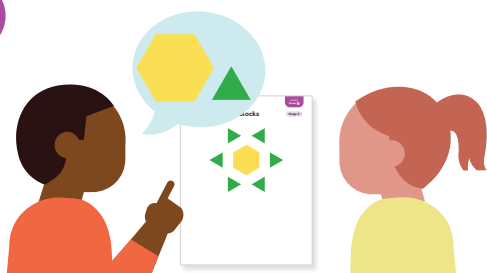
Choose a Puzzle.

2



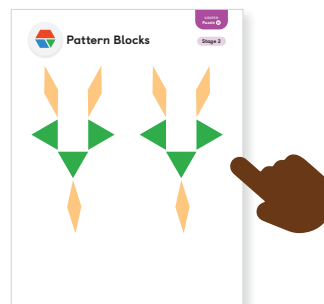
Use pattern blocks to fill in the Puzzle.

3



Show your partner your puzzle, and tell your partner which blocks you used.

4



Choose another Puzzle.

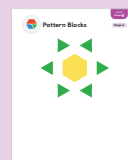
Let's fill in puzzles with pattern blocks.

Pairs

You'll need . . .



pattern blocks



Puzzles A–J



# Pattern Blocks

Stage 2





# Pattern Blocks

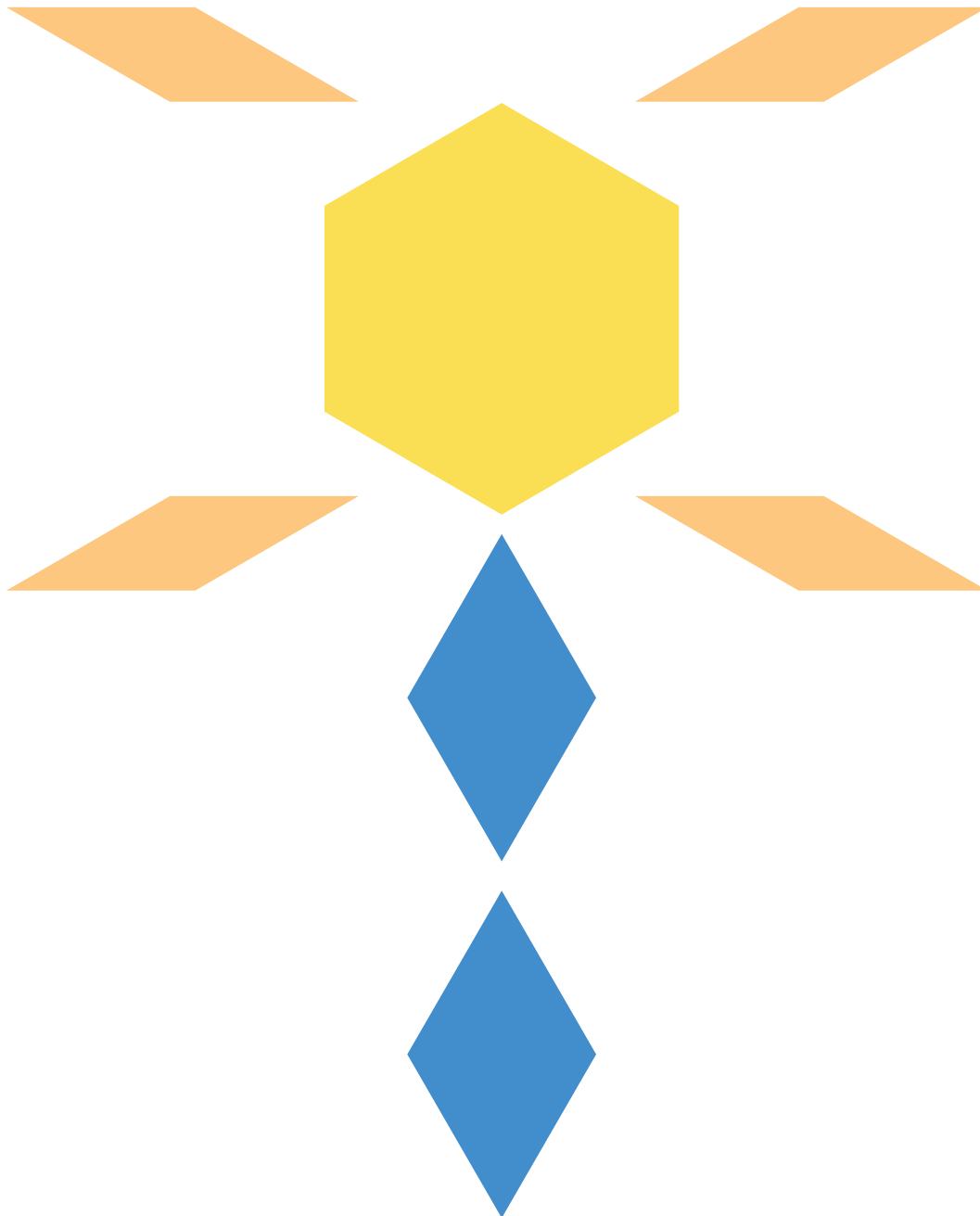
Stage 2





# Pattern Blocks

Stage 2





# Pattern Blocks

Stage 2





# Pattern Blocks

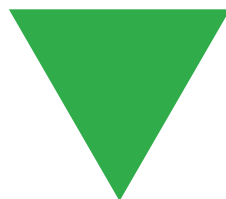
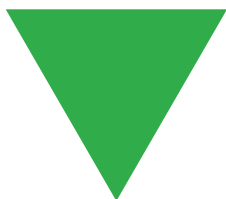
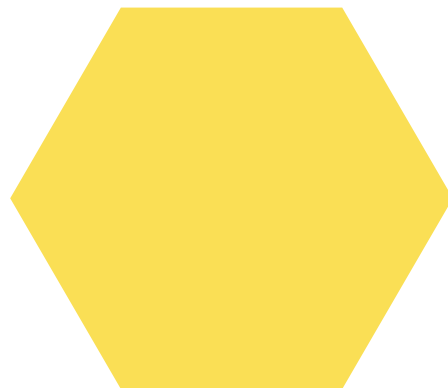
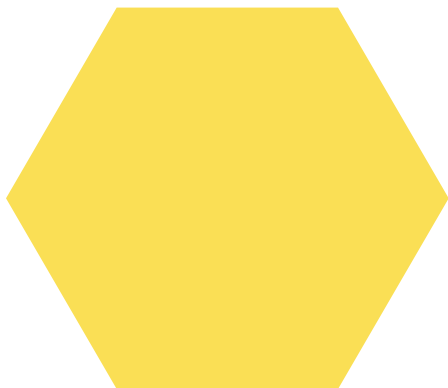
Stage 2





# Pattern Blocks

Stage 2





# Pattern Blocks

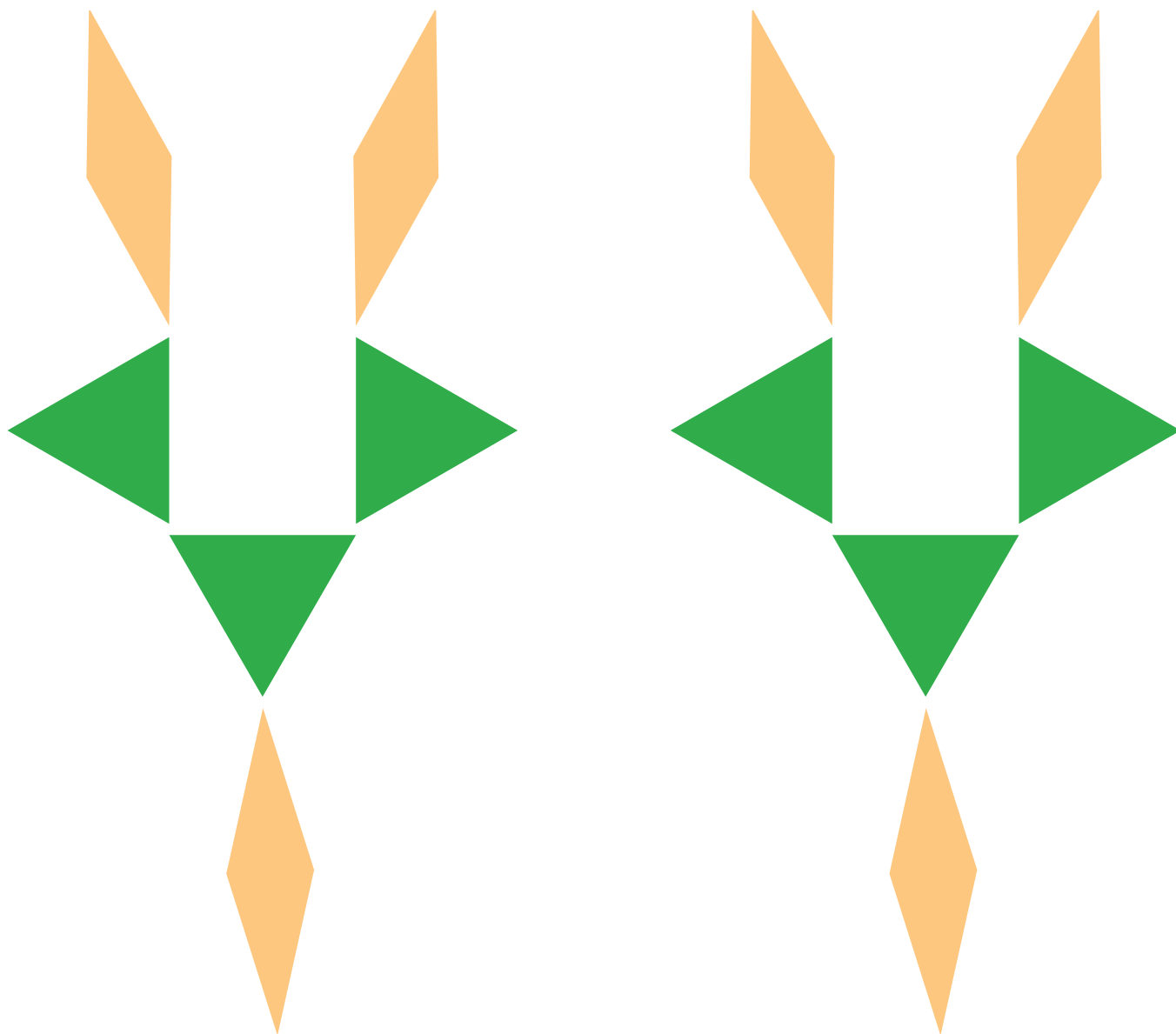
Stage 2





# Pattern Blocks

Stage 2





# Pattern Blocks

Stage 2





# Pattern Blocks

Stage 2

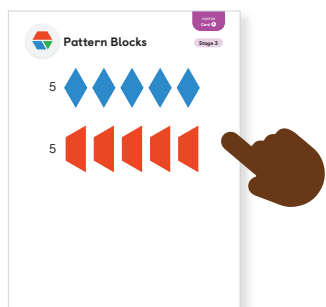




# Pattern Blocks

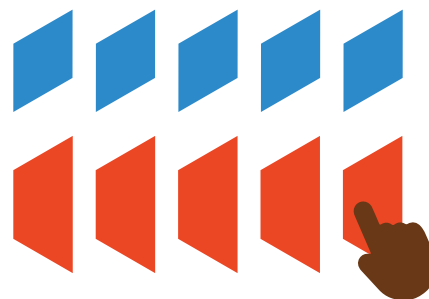
Stage 3

1



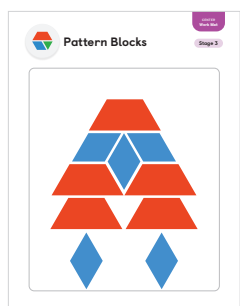
Choose a Card.

2



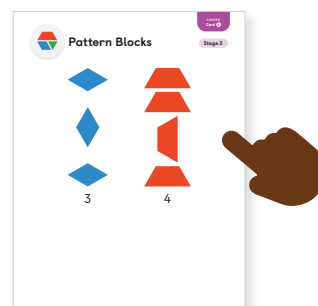
Make matching groups of each type of pattern block.

3




Use the pattern blocks to build an object on the Work Mat.

4



Choose another Card.

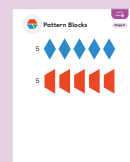
Let's use pattern blocks to build a shape.

Independent 

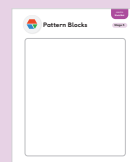
You'll need . . .



pattern blocks



Cards A–J

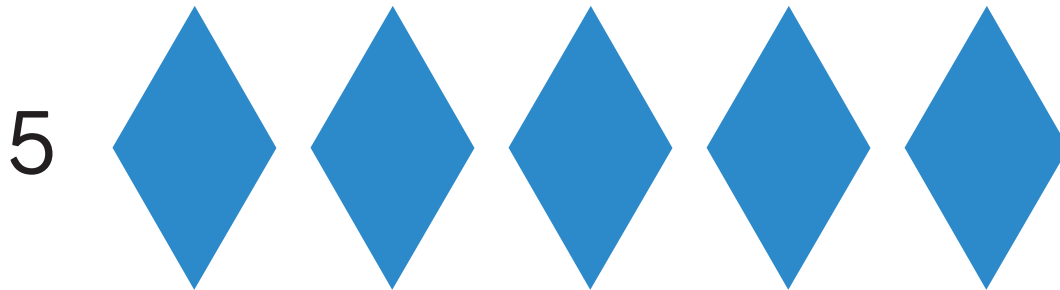


Work Mat



# Pattern Blocks

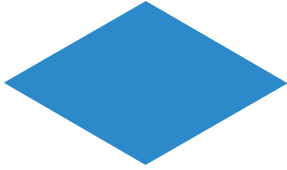
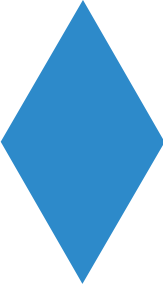
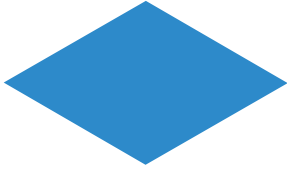
Stage 3





# Pattern Blocks

Stage 3



3

4



# Pattern Blocks

Stage 3

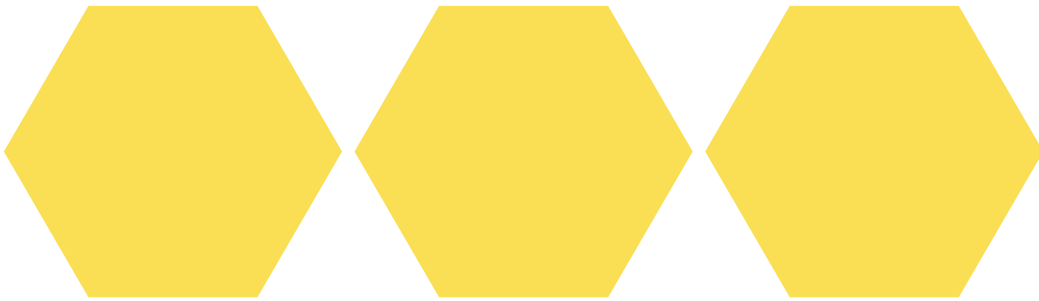




# Pattern Blocks

Stage 3

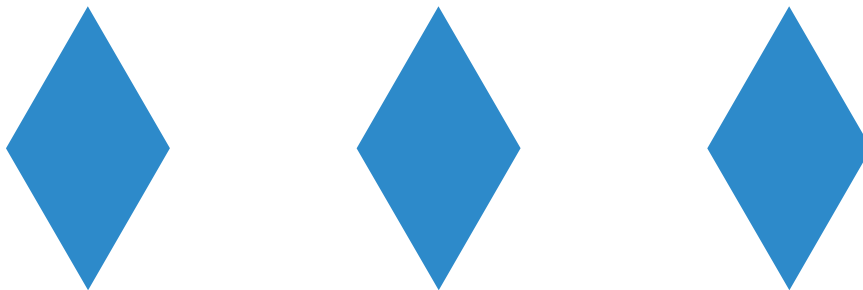
3



3



3





# Pattern Blocks

Stage 3



2



2



2



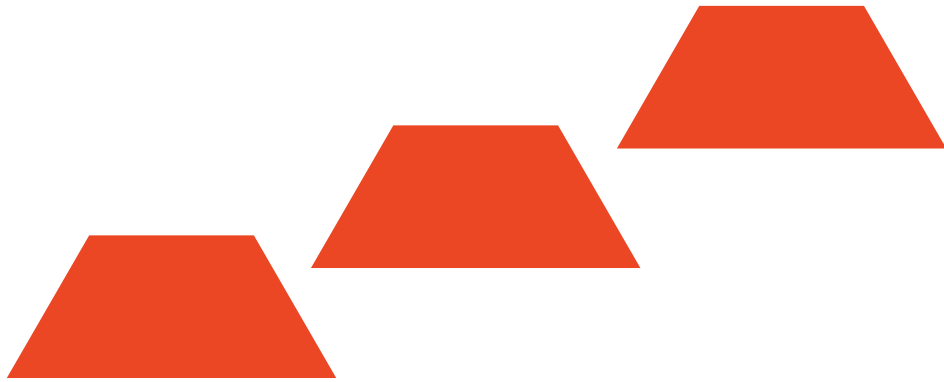
3



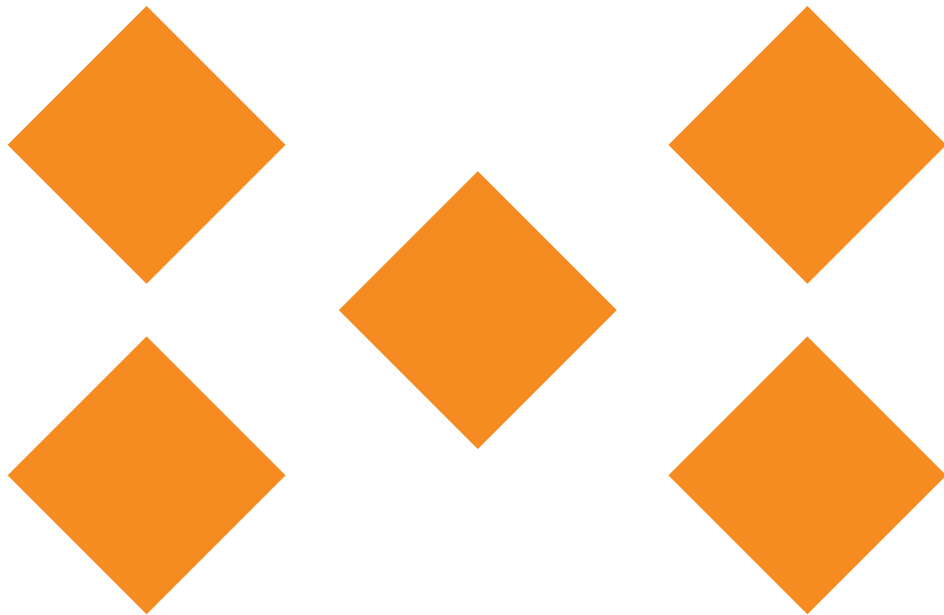
# Pattern Blocks

Stage 3

3



5





# Pattern Blocks

Stage 3

4



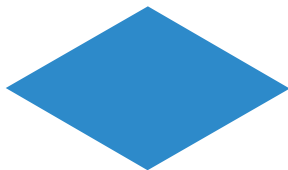
3



2



1





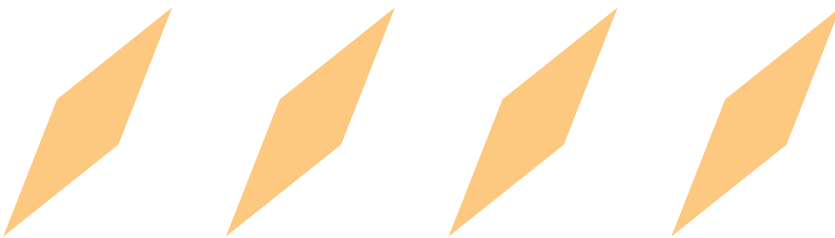
# Pattern Blocks

Stage 3

5



4



2

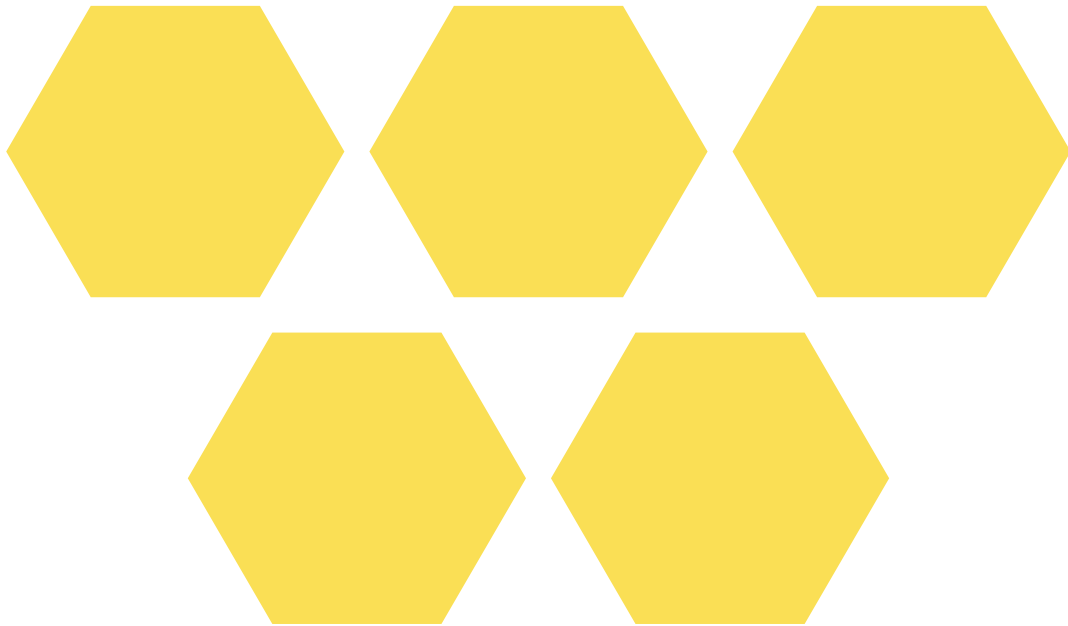




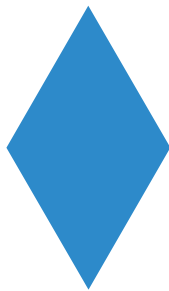
# Pattern Blocks

Stage 3

5



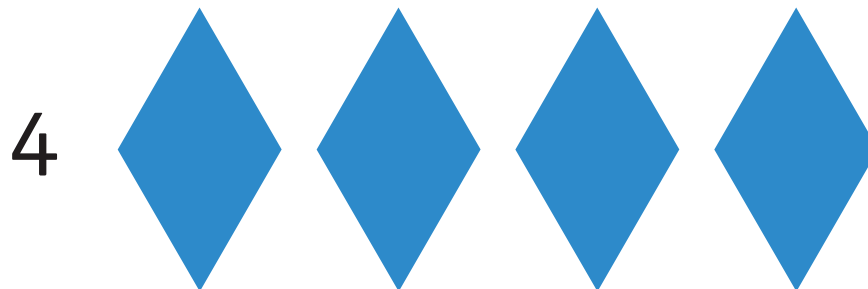
1





# Pattern Blocks

Stage 3

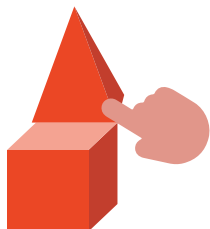




# Solid Shapes

Stage 1

1



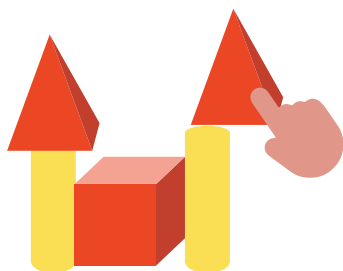
Explore the solid shapes.

2



Ask your partner what they did with the solid shapes.

3



Continue exploring the solid shapes.

Let's explore solid shapes.

Pairs

You'll need . . .



geoblocks  
geosolids



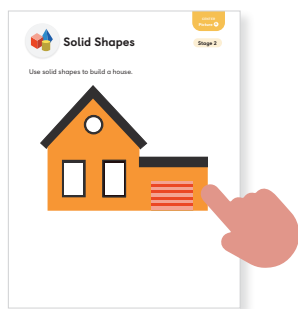
Work Mat



# Solid Shapes

Stage 2

1



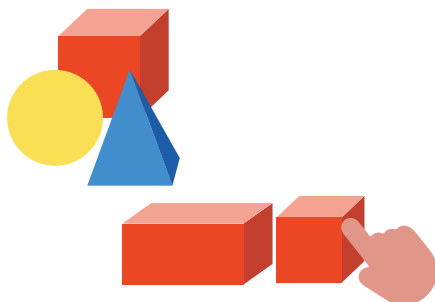
Choose a picture.

2



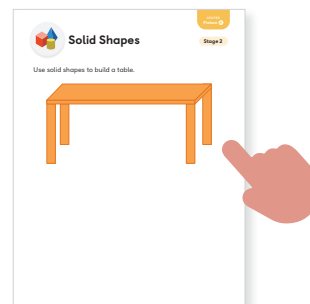
Talk with your partner about what shapes you will need.

3



Work together to build what is in the picture using solid shapes.

4



Choose another picture and start again.

Let's use solid shapes to build what's in a picture.

Pairs

You'll need . . .



geoblocks  
geosolids



Pictures  
A-J



Work Mat



# Solid Shapes

Stage 2

Use solid shapes to build a house.

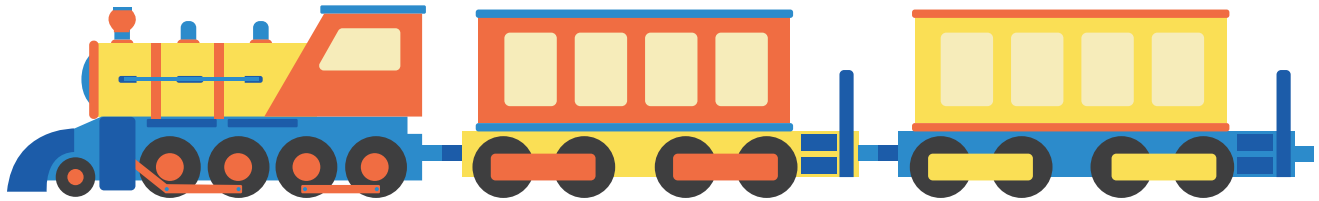




# Solid Shapes

Stage 2

Use solid shapes to build a train.

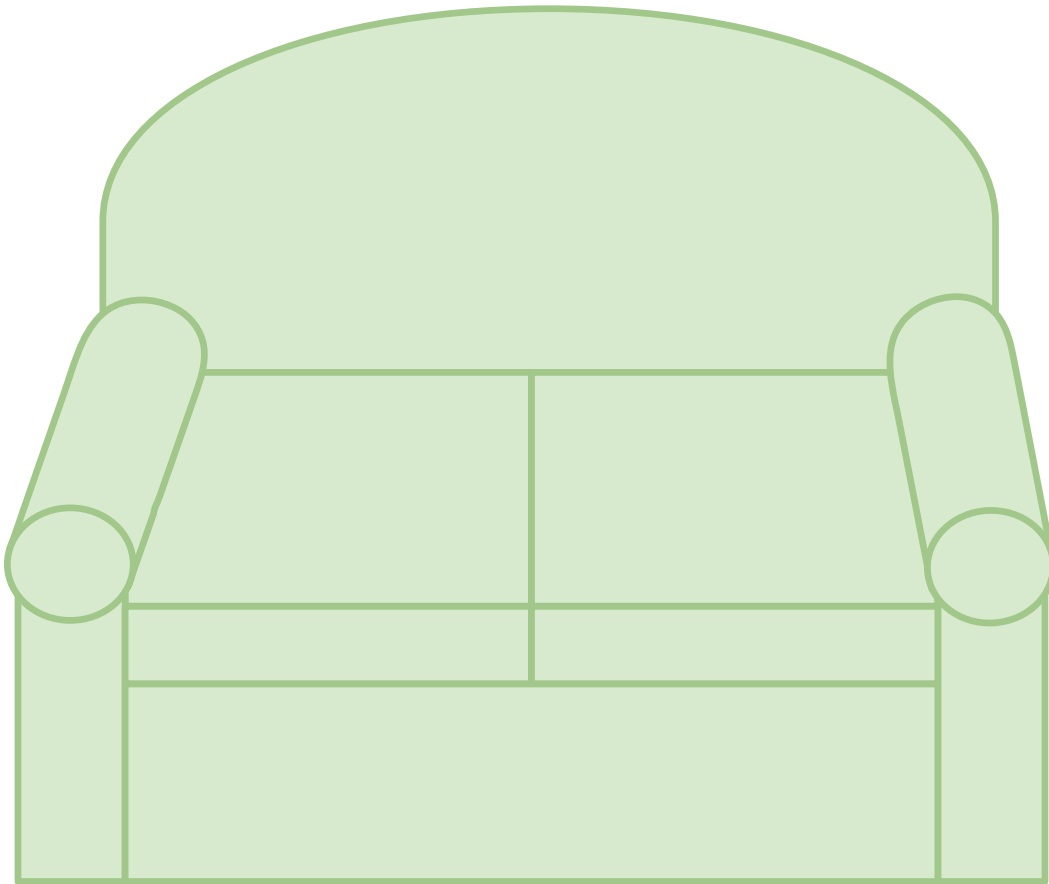




# Solid Shapes

Stage 2

Use solid shapes to build a couch.





# Solid Shapes

Stage 2

Use solid shapes to build a bus.





# Solid Shapes

Stage 2

Use solid shapes to build a school.

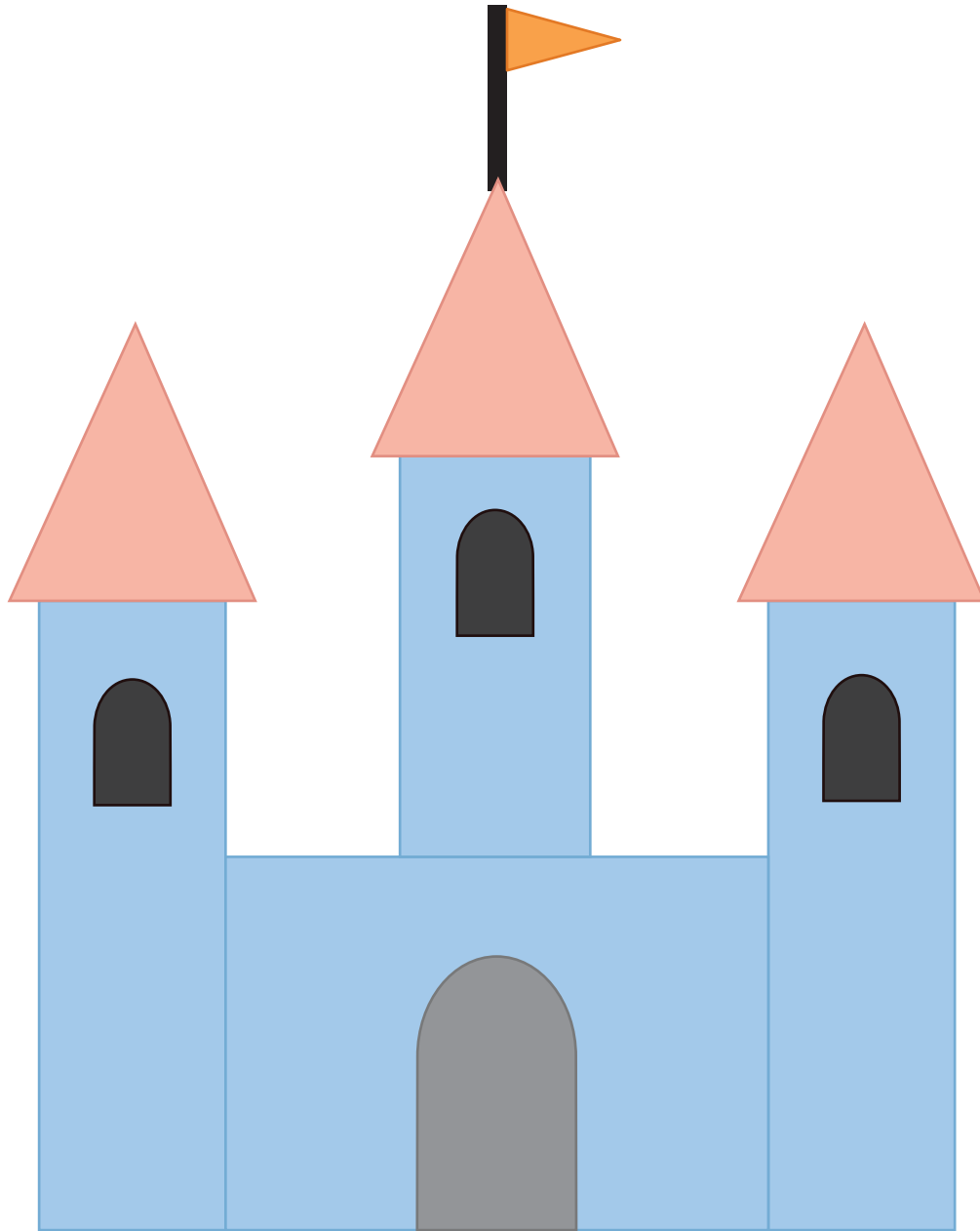




# Solid Shapes

Stage 2

Use solid shapes to build a castle.





# Solid Shapes

Stage 2

Use solid shapes to build a road.





# Solid Shapes

Stage 2

Use solid shapes to build a table.

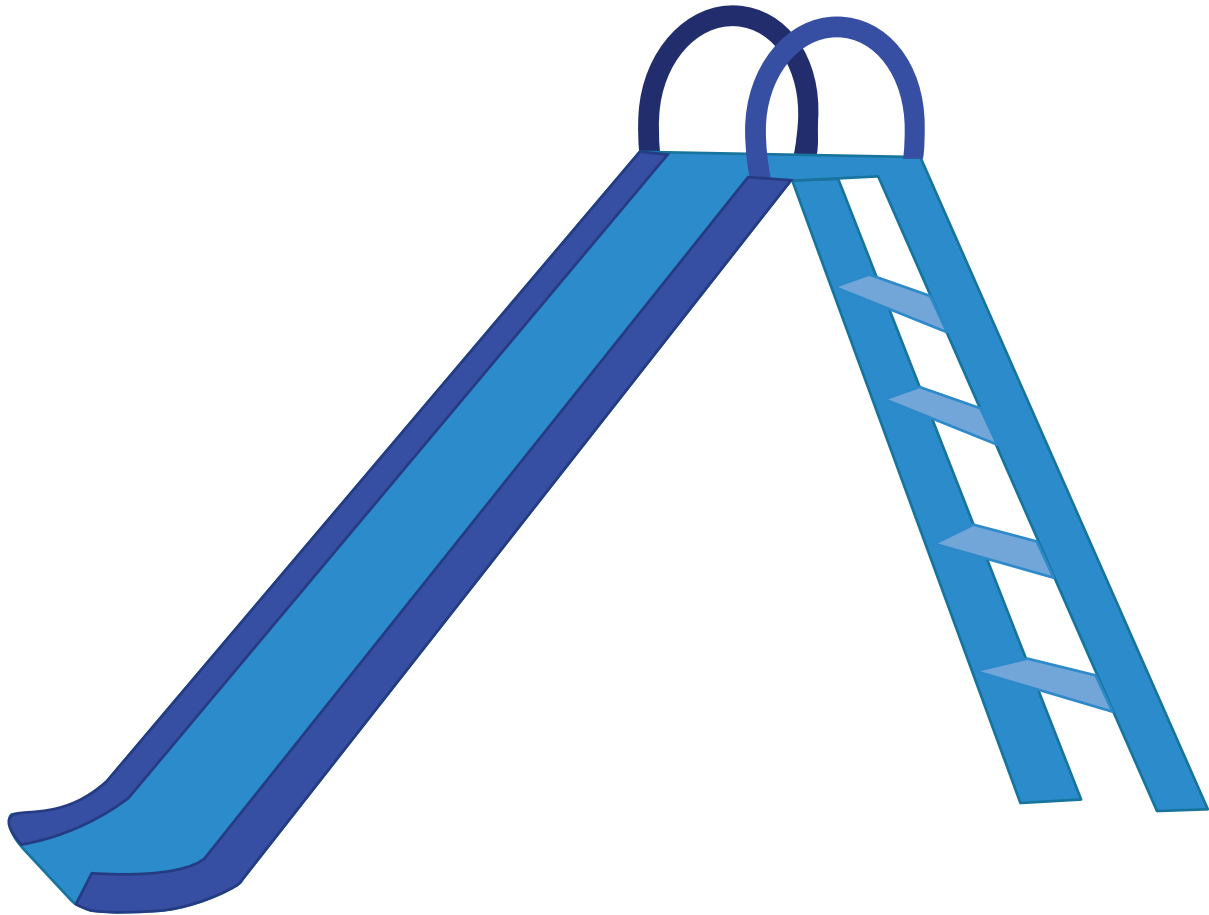




# Solid Shapes

Stage 2

Use solid shapes to build a slide.

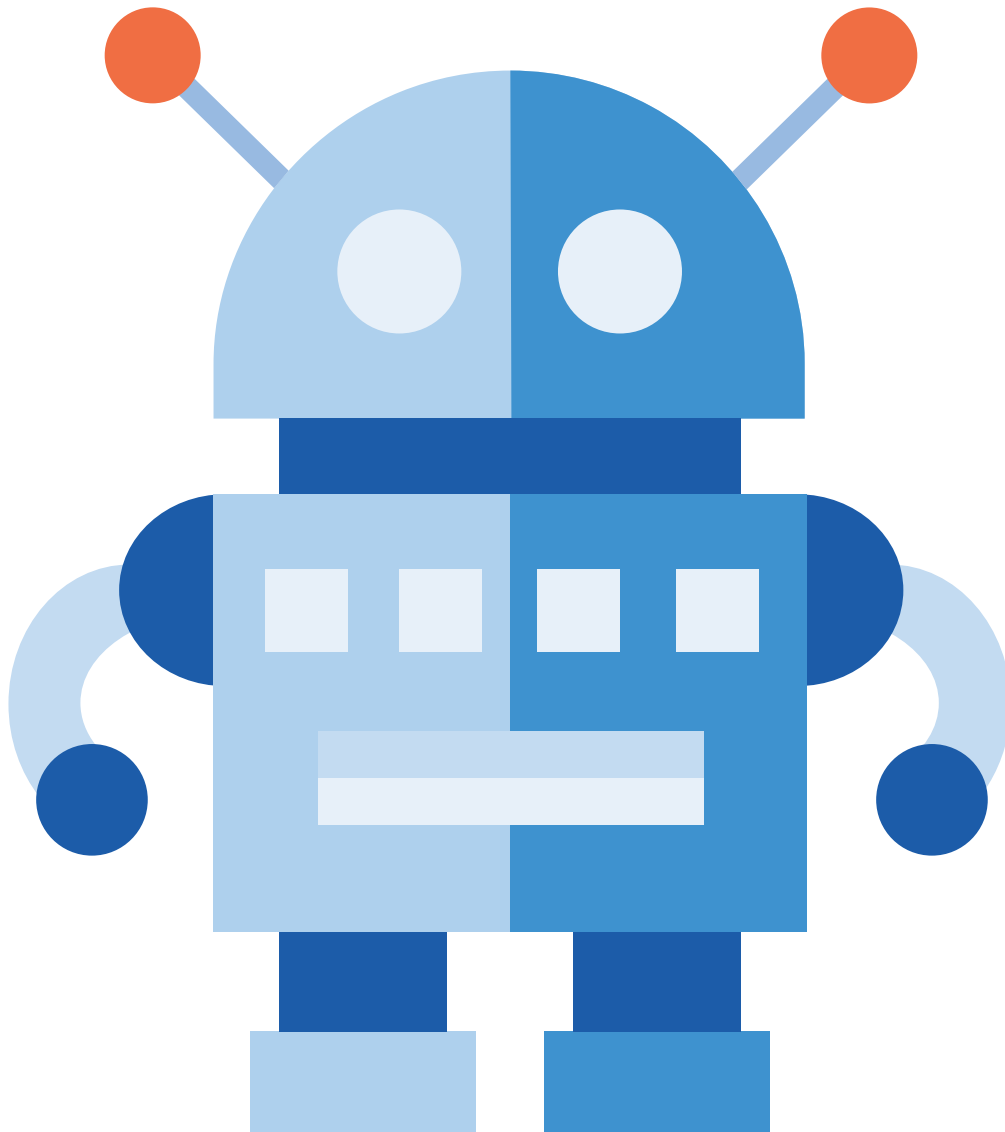




# Solid Shapes

Stage 2

Use solid shapes to build a robot.



Amplify Desmos Math

KINDERGARTEN

# Common Centers Resources

# Work Mat

CENTER  
Work Mat

A large, empty rectangular area with rounded corners, intended for student work. The area is completely blank and occupies most of the page.

Amplify Desmos Math

KINDERGARTEN

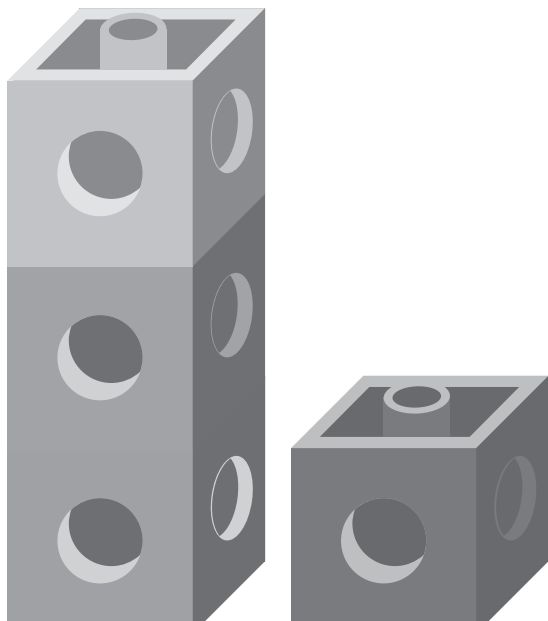
# Lesson Resources

# Math Tools Images

✂ - **Directions:** Pre-cut each image and add each image to the *Math Tools* chart. Add Image A during Lesson 1 and label it *connecting cubes*. Add Image B during Lesson 2 and label it *pattern blocks*. Add Image C during Lesson 3 and label it *solid shapes*. Add Images D and E during Lesson 4 and label them *counters* and *5-frame*, respectively. Add Image F during Lesson 10 and label it *pencil and paper*.

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**A**



Math Tools Images

**B**



Math Tools Images

# Math Tools Images

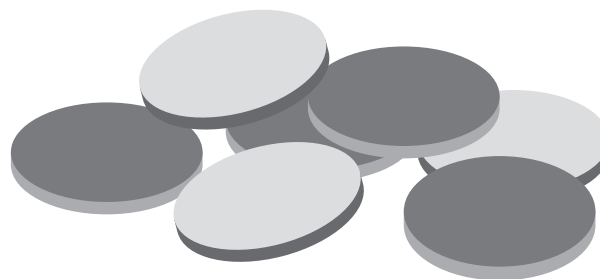
© Amplify Education, Inc. and its licensors. Amplify Desmos Math is based on curricula from Illustrative Mathematics (IM).

C



Math Tools Images

D



Math Tools Images

# Math Tools Images

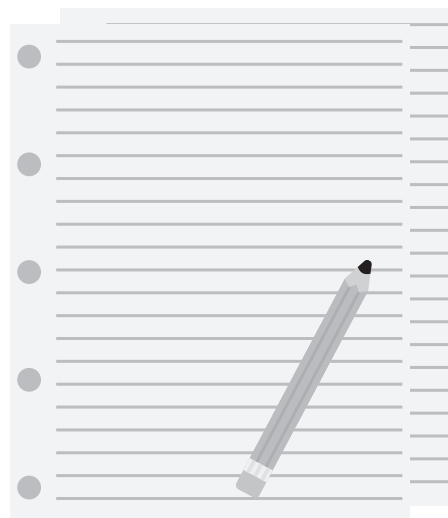
© Amplify Education, Inc. and its licensors. Amplify Desmos Math is based on curricula from Illustrative Mathematics (IM).

F



Math Tools Images

F



Math Tools Images

Name \_\_\_\_\_ Date \_\_\_\_\_

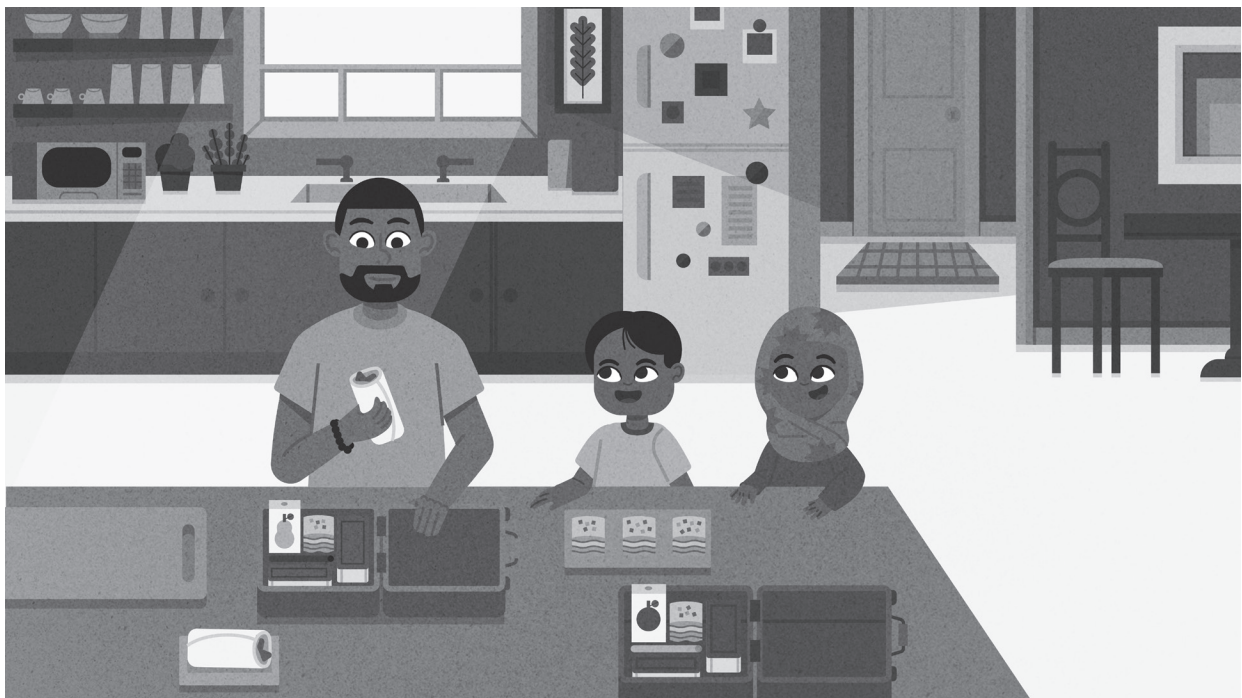
# Looking for Small Groups

Find groups of objects in these illustrations. Use your fingers to show your partner how many objects there are in each group.



Name \_\_\_\_\_ Date \_\_\_\_\_

# Looking for Small Groups



Name \_\_\_\_\_ Date \_\_\_\_\_

# Looking for Small Groups




Name \_\_\_\_\_ Date \_\_\_\_\_

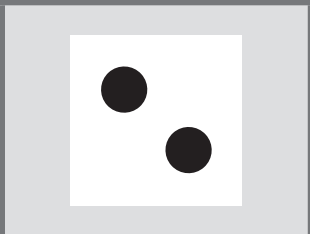
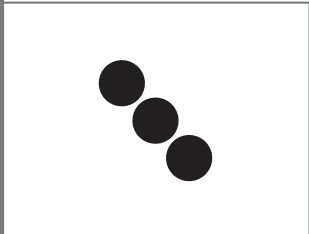
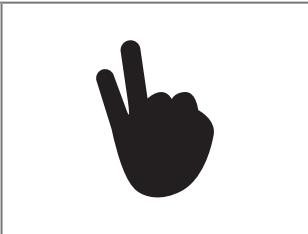
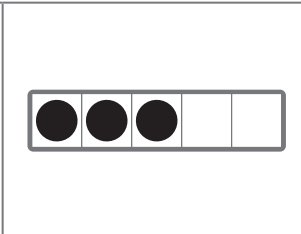
# Looking for Small Groups



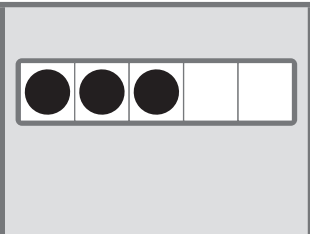
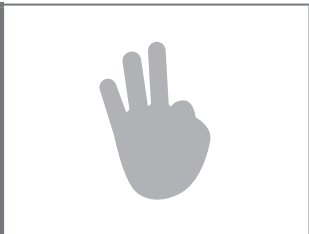
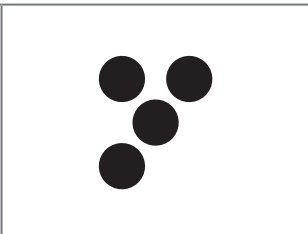
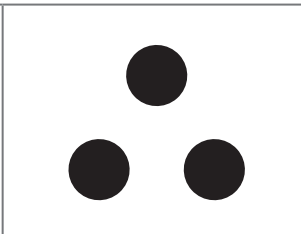
# Different Groups, Same Quantity

 **Directions:** Circle the groups of objects in each row that show the same number as the first group. Tell how you know the groups you circled show the same number of objects.

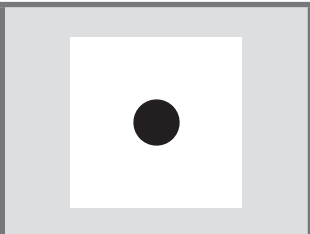
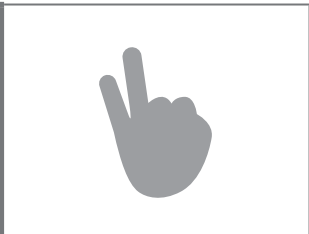
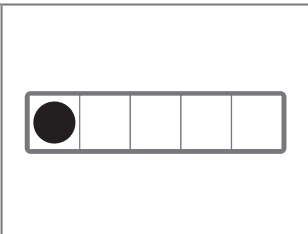
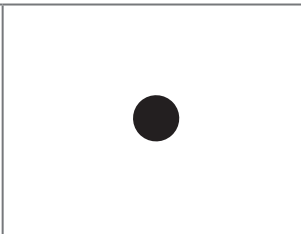
1

			
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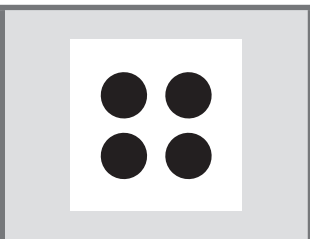
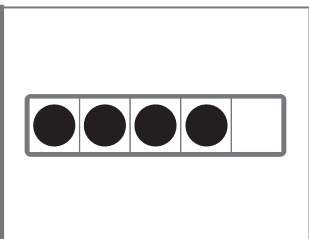
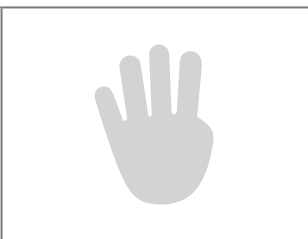
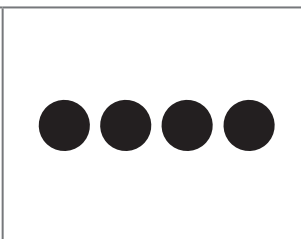
2

			
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3

			
---	---	--	---

4

			
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# Matching Groups

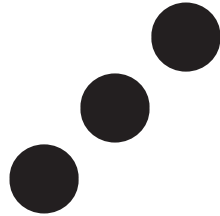
 **Directions:** Make one copy per pair of students. Pre-cut the cards and distribute them so that each pair receives both sets of cards (Cards A–H and Cards I–P).

A



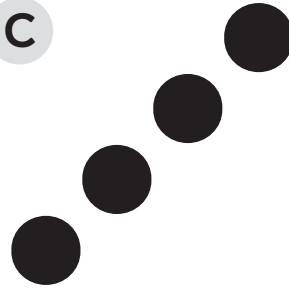
Matching Groups

B



Matching Groups

C



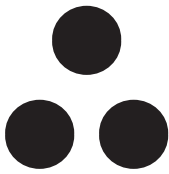
Matching Groups

D



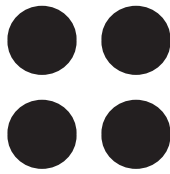
Matching Groups

E



Matching Groups

F



Matching Groups

G



Matching Groups

H



Matching Groups

I



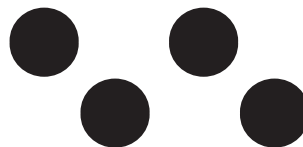
Matching Groups

J



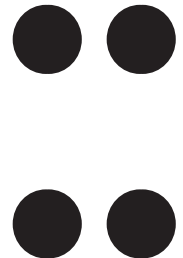
Matching Groups

K



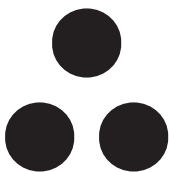
Matching Groups

L



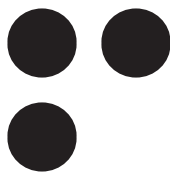
Matching Groups

M



Matching Groups

N



Matching Groups

O



Matching Groups

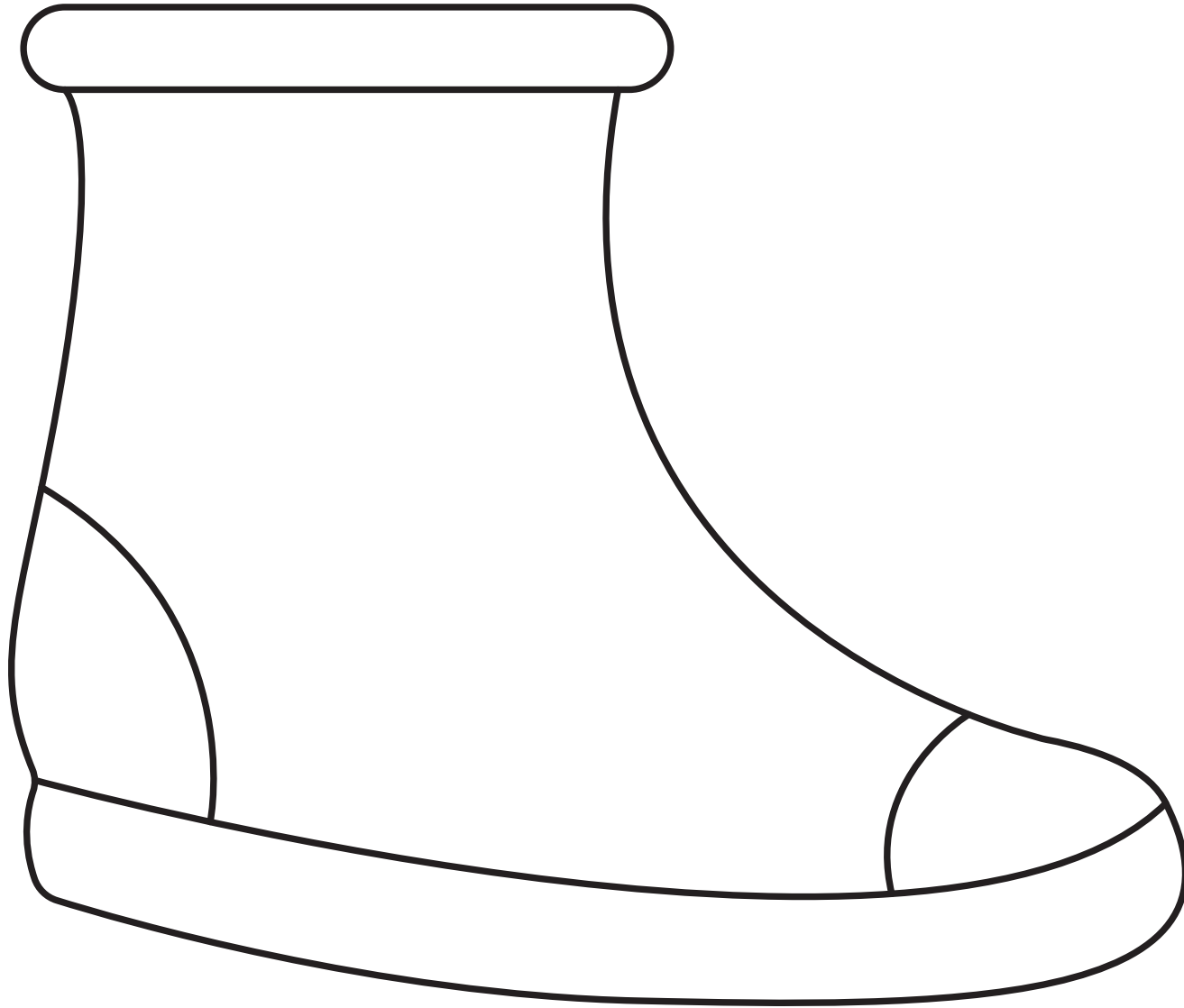
P



Matching Groups

Name \_\_\_\_\_ Date \_\_\_\_\_

# Skye's Polka Dot Shoes



# Finding and Making a Match

**Directions:** Find 2 groups in the picture that show the same number. Then draw a group that shows the same number.



 Draw

1

# Finding and Making a Match

 Draw

2

3

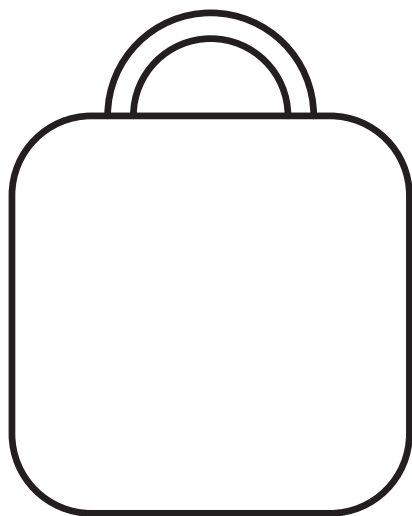
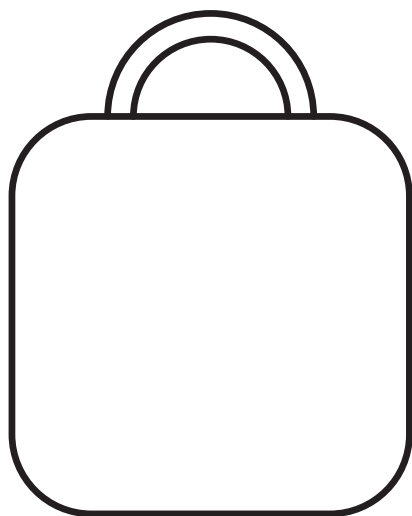
# Are There Enough? (Part 1)

**Directions:** Use your counters to figure out if there are enough pieces of fruit for each lunch box to have 1 piece.


## Hands-On

1

 Show your thinking.



# Are There Enough? (Part 2)

 **Directions:** Use your counters to figure out if there are enough plates for each person to have 1 plate.

## Hands-On

1

 Show your thinking.



# Getting Enough

**Directions:** Work with your partner to get enough pattern blocks so that each person in this group has 1 pattern block. Show your thinking using pattern blocks or drawings.

## Hands-On

2

 Show your thinking.



# How Many Are There?

**Directions:** Figure out how many are in your bag. Then show how many using objects, drawings, numbers, or words.

1



Show your thinking.

A large, empty rectangular box with rounded corners, intended for students to show their work or thinking.

# Drawing to Show How Many

**Directions:** Figure out how many are in your bag. Then show how many using a drawing.

2



Show your thinking.

A large, empty rounded rectangle with a thin grey border, intended for the student to draw and show their thinking.