



Amazing Construction

Math: Let's Make a Pattern

Action Goal:

Students identify vocabulary pictures and then use the pictures to complete patterns in a group activity.

Embedded Skill Targets:

Curricular Area	Learning Spectrum		
	Increased support needs	→	Extended learning
Routines	Working with a teacher	Small group work	Group academic instruction
Receptive and Expressive Language	Attending Matching pictures Following one-step directions	Following two-step directions Receptive/expressive identification of nouns Commenting with one or two words Answering questions	Commenting using phrases
Academic Skills	Attending and listening	Completing patterns	Copying patterns

Materials:

Provided:

- Sequence strip or large sequence panels
- Large pattern pictures
- Student pattern pictures
- Teacher's key

Needed:

- Chart paper (4 sheets)
- Permanent marker
- Scissors
- Hook and loop fastener
- Plastic bags (8)
- Paper clips (4)
- Tape

Preparation:

1. Print, laminate, and cut out:
 - a. Sequence strip or large sequence panels
 - b. Large pattern pictures (1 set for each pattern)
 - c. Student pattern pictures (1 set per student for each pattern)
2. Print the teacher's key.
3. If using the large sequence panels, arrange the pictures in order and tape them together.
4. Place hook and loop fastener on the back of each large pattern picture.
5. Keep the pattern sets separate from one another. Place each complete set of large pattern pictures in its own bag (e.g., one bag for Set 1 AB, one bag for Set 2 AAB, etc.). Label the bag with the pattern type as identified on the teacher's key.
6. Repeat Step 5 for the student pattern pictures.
7. Prepare the four pattern charts:
 - a. Turn each sheet of chart paper sideways.
 - b. Place eight pieces of hook and loop fastener spaced evenly across the width of each chart.
 - c. Affix the large pattern pictures to the four charts according to the teacher's key to set up each pattern for students to finish.
 - d. For each of the pattern charts, use a paper clip to attach the bags with the pattern picture sets (i.e., the bag containing the large pattern pictures and the bag of student pattern pictures).

Helpful Learning Tools

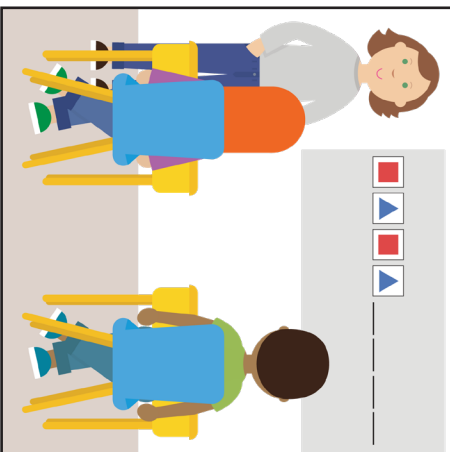
- Use the corresponding digital REEL as an alternative or complement to the printable materials.
- Review the Learning Differentiation Guide to individualize this lesson for each student's learning level.

Instructions:

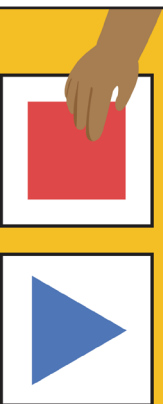
1. Select the first pattern chart, and use tape as needed to secure it on the wall for the class to see and access.
2. Pass out the student pattern pictures for the first pattern. Each student should receive a full set (two or three) of the student pattern pictures that correspond to this pattern. Identify the pictures as a class.
3. Review the activity sequence strip.
4. Demonstrate the activity:
 - a. Point to the chart paper for the first pattern, which shows only the start of a pattern.
 - b. Model adding the next two or three pictures to complete the pattern.
 - c. Remove the model pictures you used to demonstrate the activity so the chart paper is ready for students to participate.
5. Perform the activity:
 - a. Name each large pattern picture as you point to it on the first pattern chart. When you get to the end, ask the students, "What comes next?" Encourage all students to hold up the correct picture.
 - b. After students hold up the correct picture, take the correct large pattern picture and ask for a student volunteer to affix the picture in place on the chart paper.
 - c. Continue until all large pattern pictures have been put in order on the chart paper, and review the completed pattern with the class.
6. Repeat the activity with the remaining pattern sets.



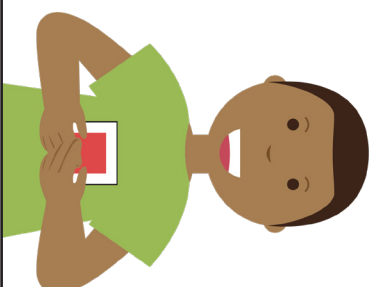
Listen to the teacher



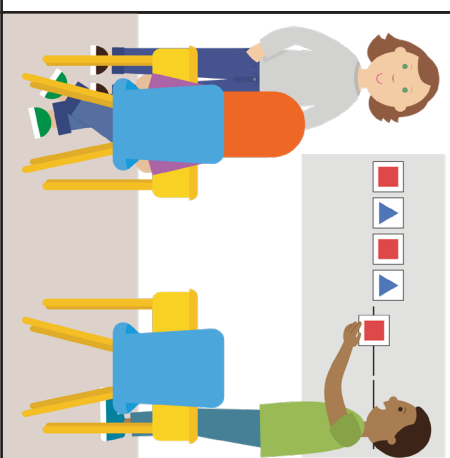
Find the next picture



Hold up the picture



Add the picture to the chart

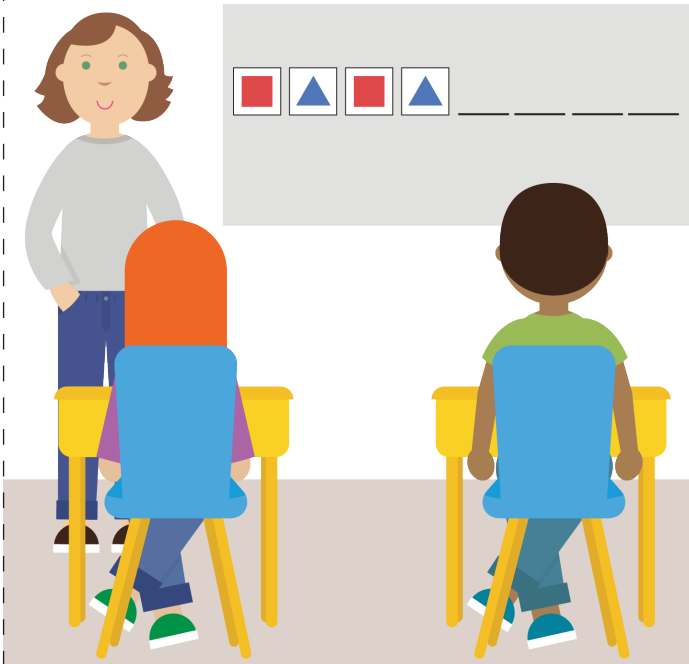


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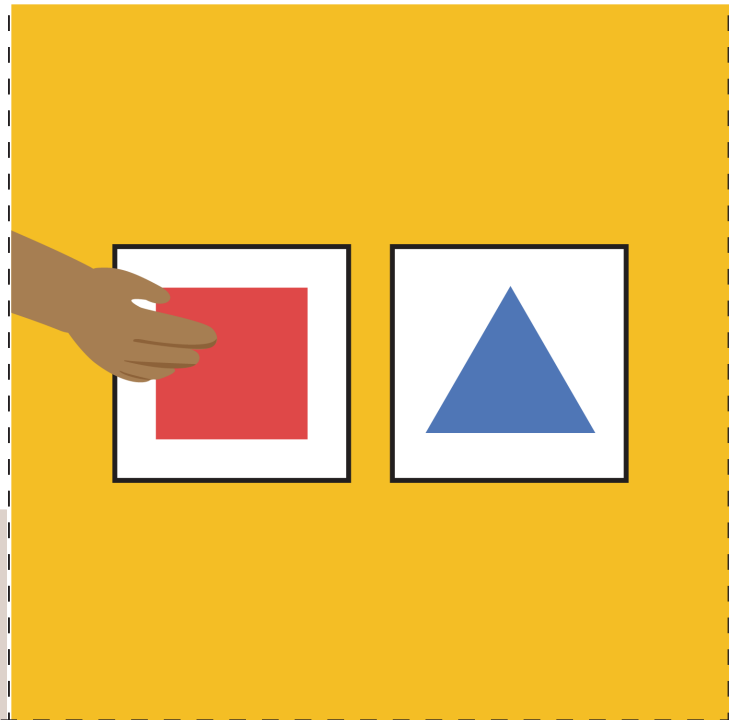
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Listen to the teacher



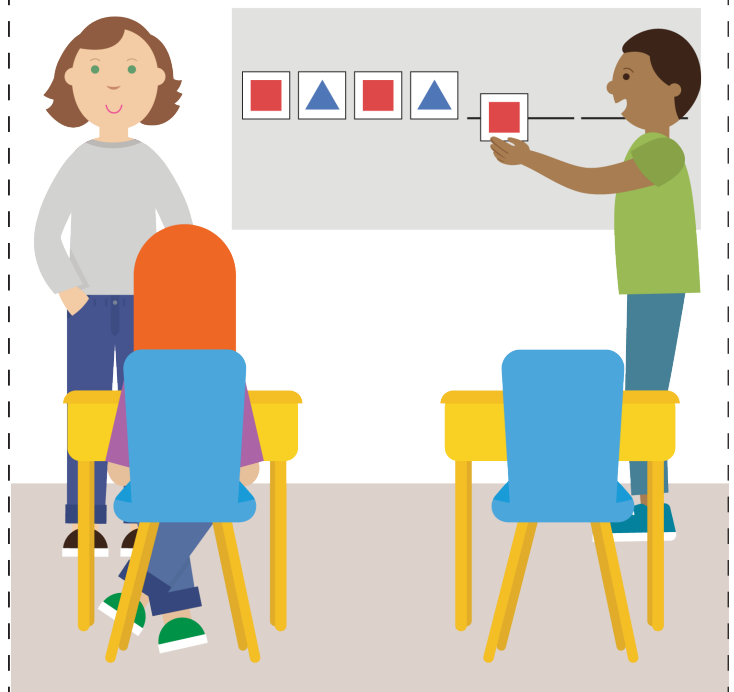
Find the next picture



Hold up the picture



Add the picture to the chart





Cement truck



Cement truck



Cement truck



Cement truck





Road worker



Road worker



Road worker

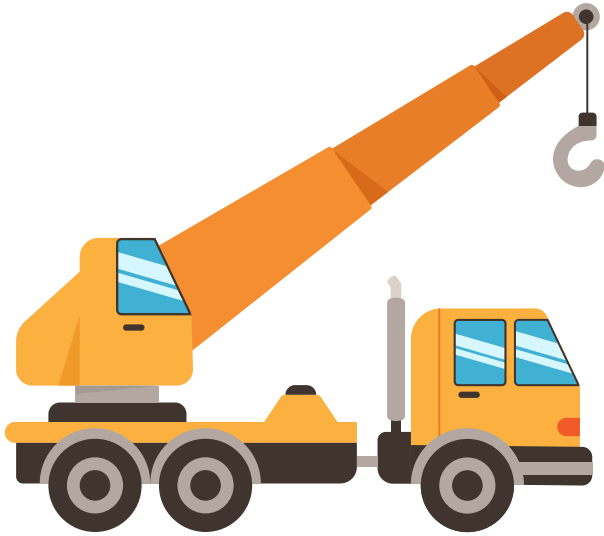


Road worker

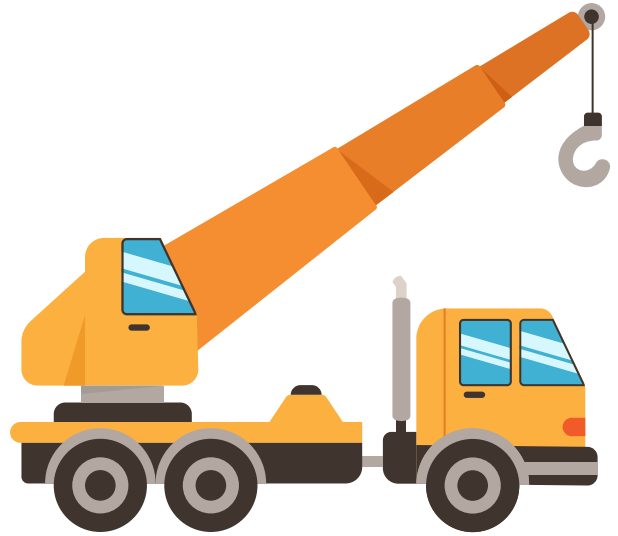




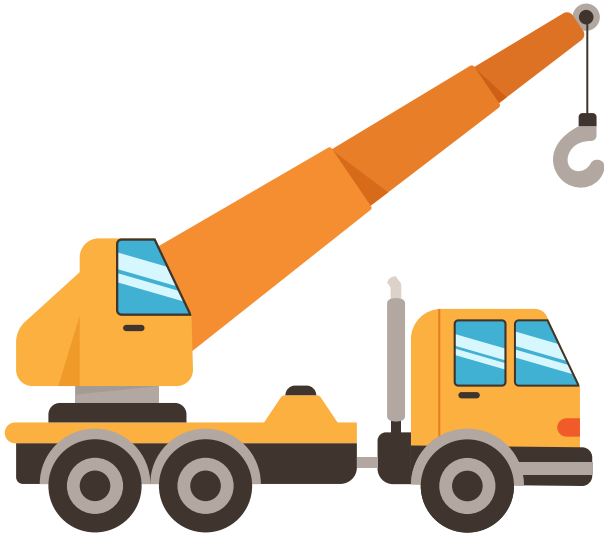
Crane



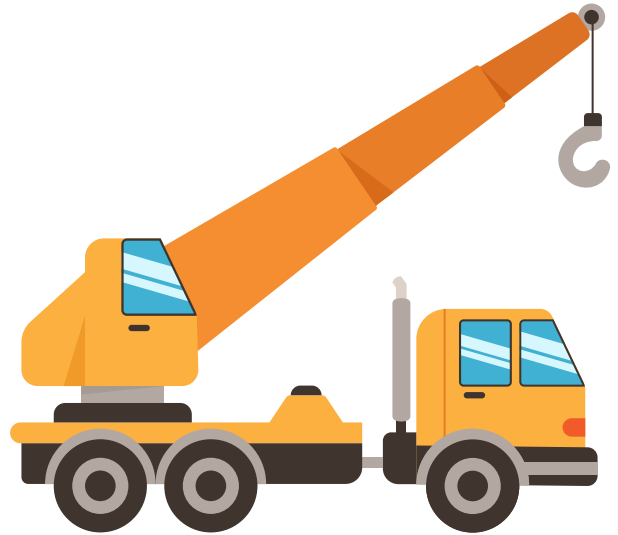
Crane



Crane

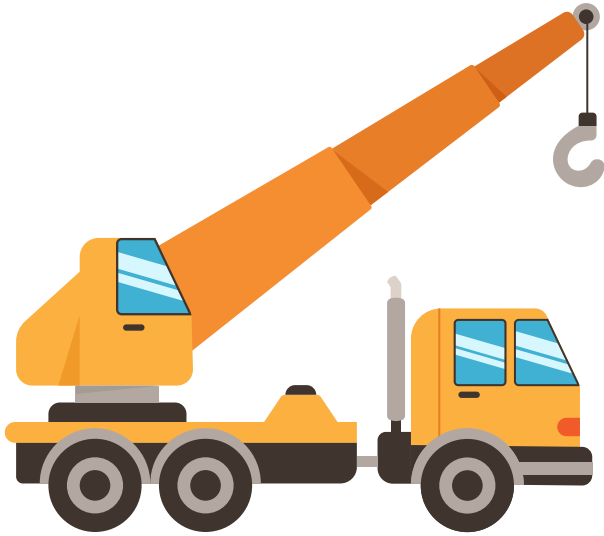


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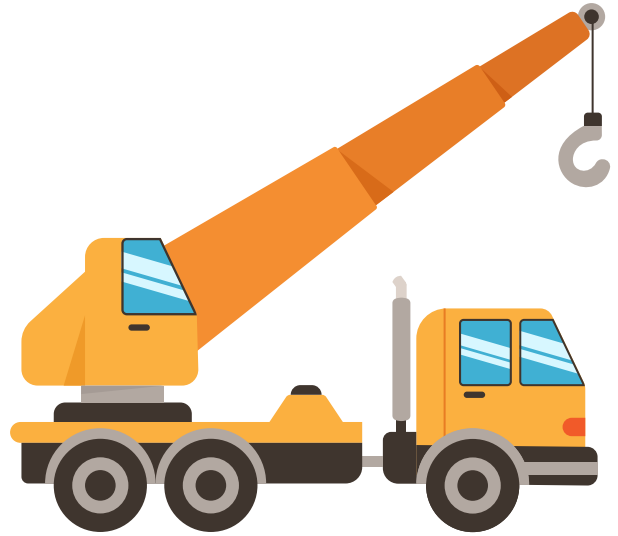




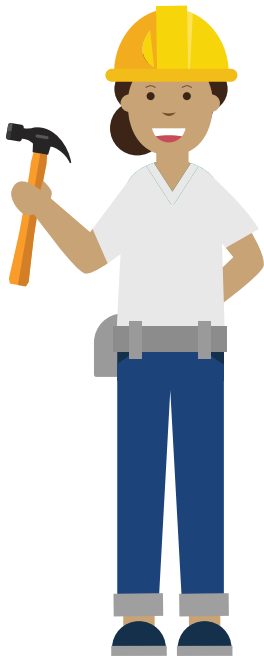
Crane



Crane



Construction worker



Construction worker





Construction worker



Bulldozer



Bulldozer



Bulldozer





Construction sign



Construction sign



Construction sign



Construction sign

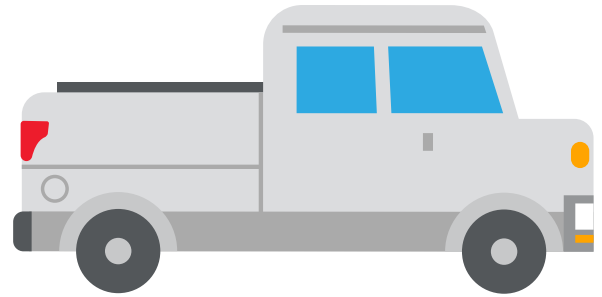




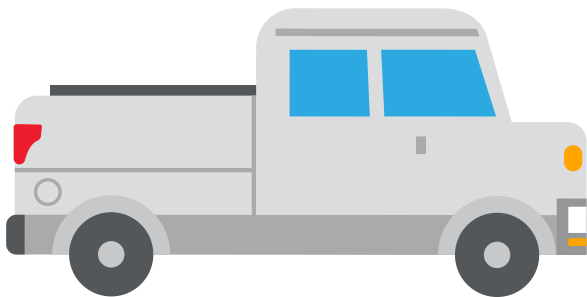
Construction sign



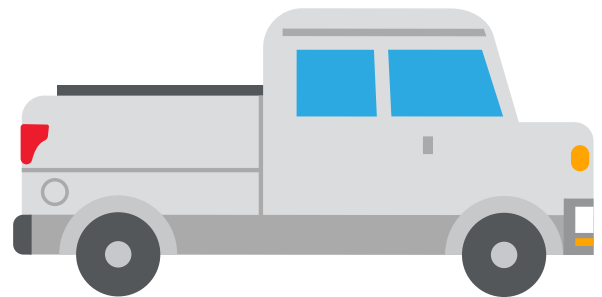
Pickup truck



Pickup truck

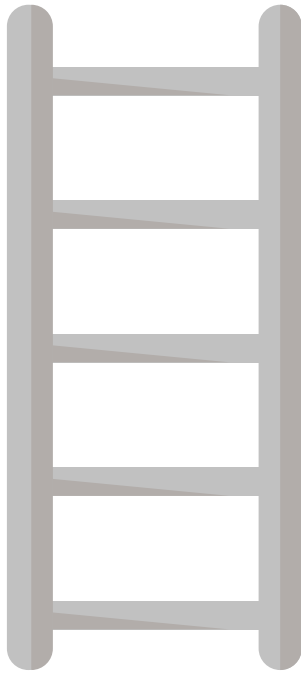


Pickup truck

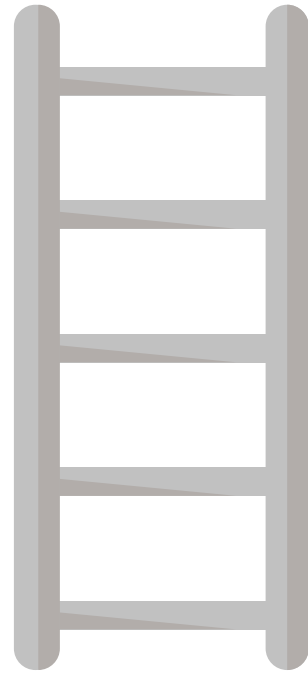




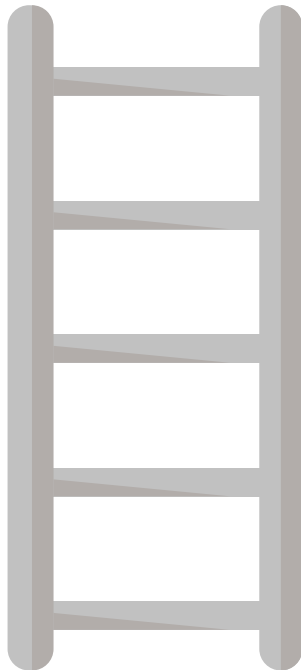
Ladder



Ladder



Ladder



Painter





Painter

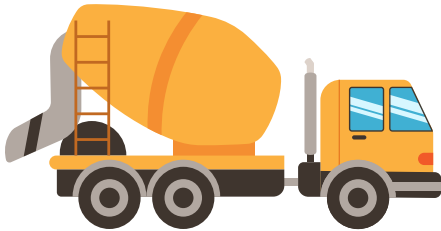


Painter





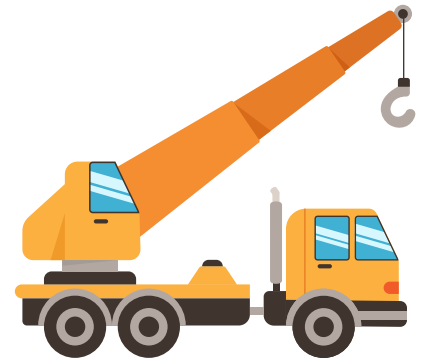
Cement truck



Road worker



Crane



Construction worker



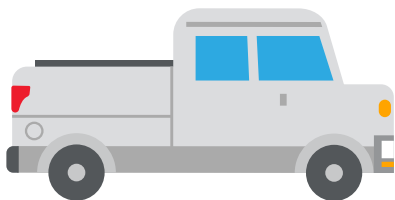
Construction sign



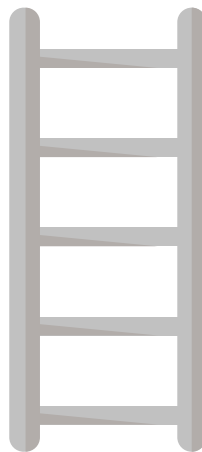
Bulldozer



Pickup truck



Ladder



Painter



Teacher's key

Instructions: Use this key to set up the chart paper for each pattern in preparation for the activity. Attach the amount of large pattern pictures in the order listed onto the chart paper, and draw blank lines where the students will attach the remaining large pattern pictures to complete the pattern during the activity.

Set 1 – AB pattern:

Cement truck picture, Road worker picture, Cement truck picture, Road worker picture,
then 4 blank lines

Set 2 – AAB pattern:

Crane picture, Crane picture, Construction worker picture, Crane picture, Crane picture,
then 4 blank lines

Set 3 – ABB pattern:

Construction sign picture, Bulldozer picture, Bulldozer picture, Construction sign picture,
then 4 blank lines

Set 4 – ABC pattern:

Pickup truck picture, Ladder picture, Painter picture, Pickup truck picture, Ladder picture,
then 4 blank lines