Shape Build Lab

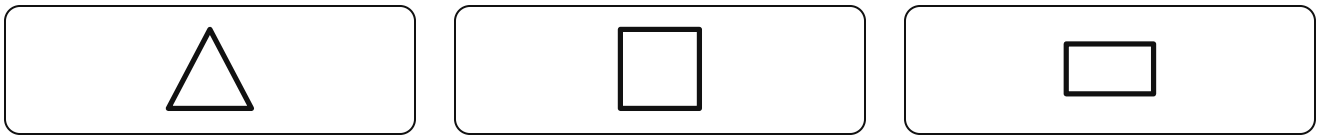
Build, take apart, and rebuild flat and solid figures.

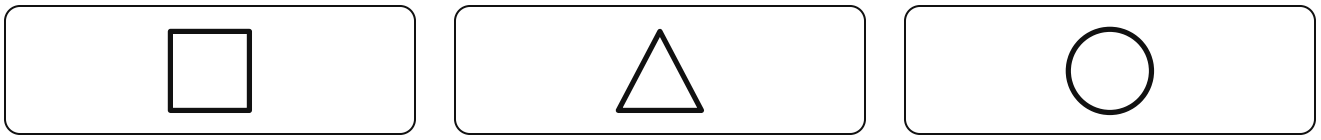
1.GSR.4.2 "Compose two-dimensional shapes (rectangles, squares, triangles, half-circles, and quarter-circles) and three-dimensional figures (cubes, rectangular prisms, cones..."

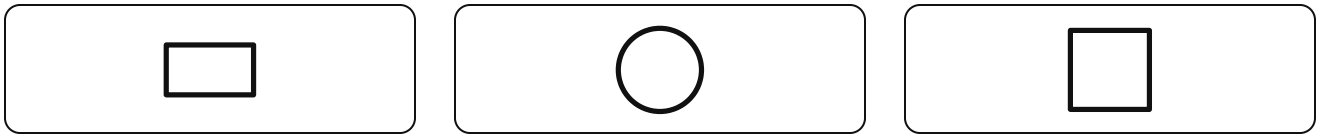
NAME _____ DATE _____

Teacher: this page is run aloud. The script and answers are on the guide page.

1 FLAT BUILDS

a 

b 

c 

2 SOLID BUILDS

a | **cube** | **prism** | **cylinder**

b | **cube** | **cone** | **cylinder**

ANSWER KEY

Shape Build Lab

GRADE 1 · 1.GSR.4.2

HOW TO RUN THIS PAGE

Give each child four matching right-triangle pieces (cut two equal paper squares diagonally), four matching quarter-circle pieces, and eight identical cubes, or accessible movable digital equivalents. Read the prompts aloud as children actually join the pieces, inspect their builds, and circle the matching result. Observe each child taking apart and rebuilding a figure; circles alone do not show composing and recomposing.

Students never read directions on this sheet. Read each part's script aloud, then each prompt, giving think time before students mark.

PART 1 · FLAT BUILDS

SAY "Use your pieces to build each figure before choosing. After row one, keep that build and use the other two triangle pieces to make a matching build for row three. After row three, take the larger build apart, rearrange its pieces, and rebuild it; show me the parts and the whole."

ROW	SAY	STUDENTS CIRCLE
a	Join two matching triangle pieces along their longest sides, with no gaps or overlaps. Row one. The choices are triangle, square, and rectangle. Two matching triangle pieces each have a square corner and two sides that are the same length. Their longest sides touch. What shape can they make? Circle it.	**square**
b	Join the four quarter-circle pieces with the straight sides meeting in the middle. Row two. The choices are square, triangle, and circle. Four quarter-circle pieces have straight sides that meet in the middle. What shape can they make? Circle it.	**circle**
c	Place your two matching builds from triangle pieces side to side along a whole side. Row three. The choices are rectangle, circle, and square. A square made from smaller pieces touches another matching square side to side. What larger shape can they make? Circle it.	**rectangle**

PART 2 · SOLID BUILDS

SAY "Use your cubes to make each described build before you circle its name. Then take one build apart and put it together again; show me which smaller figures make the whole."

ROW	SAY	STUDENTS CIRCLE
a	Join two cubes face to face and inspect the whole. Row one. The choices are cube, prism, and cylinder. Here, prism means rectangular prism. Two matching cubes touch face to face. What figure can they make? Circle the word.	**prism**
b	Use all eight cubes to build the two by two by two block. Row two. The choices are cube, cone, and cylinder. Eight matching small cubes fit together in a two by two by two block. What figure can they make? Circle the word.	**cube**

WHAT TO ACCEPT

Flat Builds answers are square, circle, rectangle. Solid Builds answers are prism, meaning rectangular prism, and cube. Observe actual joins with no gaps or overlaps, the two square builds composing a rectangle, and a take-apart/rebuild using the same parts. Accept supported demonstrations and accessible digital manipulation; record help separately. A correct circle without a build is only recognition.