CCSS Mathematics Assessment Task

Let's Build 2-D Shapes

Grade Level: Kindergarten

Mathematics Domain and Cluster:
Domain: Geometry
Cluster: Analyze, compare, create, and compose shapes.

Common Core standard(s) being assessed (if the task is intended to assess only one part of the standard, underline that part of the standard):
K.G.4: Analyze and compare two- and three-dimensional shapes, in different sizes and orientations, using informal language to describe their similarities, differences, parts (e.g., number of sides and vertices/"corners") and other attributes (e.g., having sides of equal length).
K.G.5: Model shapes in the world by building shapes from components (e.g., sticks and clay balls) and drawing shapes.

Student Materials:
- Toothpicks (6 per student)
- Yarn (1 per student, precut into 6-inch pieces)

Teacher Materials:
- Let's Build 2-D Shapes Checklist
- Pencil

Directions (for teacher to administer assessment task):
Teacher should assess students individually or in small groups.
- Ask question prompts.

Prompt:
- Give the student the toothpicks. Say: **Use some of the toothpicks to make a square. How many sides does it have? How many corners/vertices? Use the toothpicks to make a triangle. How many sides does it have? How many corners/vertices? Use the toothpicks to make a rectangle. How many sides does it have? How many corners/vertices? Use the toothpicks to make a hexagon. How many sides does it have? How many corners/vertices?**
- Give the student a piece of yarn. Say: **What 2-D/flat shape can you make with yarn, but not with toothpicks? Use the piece of yarn to make it. How many sides does it have? How many corners/vertices?**

Correct or Model Answer:
Square: "4 sides, 4 corners/vertices"
Triangle: "3 sides, 3 corners/vertices"
Rectangle: "4 sides, 4 corners/vertices"
Hexagon: "6 sides, 6 corners/vertices"
"A Circle." "0 sides, 0 corners/vertices"

CCSS Mathematics Assessment Task

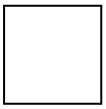
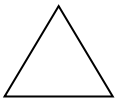
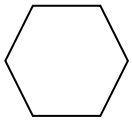
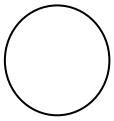
Scoring Guide/Rubric (a score should be awarded for each criterion below)			
Criteria (CCSS code)	**0 points**	**1 Point**	**2 Points**
Compare similarities and differences of two-dimensional shapes. (K.G.4)	Student accurately names number of sides and number of corners/vertices of 0-2 2-D/flat shapes.	Student accurately names number of sides and number of corners/vertices of 3-4 2-D/flat shapes.	Student accurately identifies number of sides and number of corners/vertices of all 5 2-D/flat shapes.
Builds shapes from components. (K.G.5)	Student does not accurately build any 2-D /flat shapes using toothpicks and yarn.	Student accurately builds 1-4 2-D/flat shapes using toothpicks and yarn.	Student accurately builds all 5 2-D/flat shapes using toothpicks and yarn.

CCSS Mathematics Assessment Task

Let's Build 2-D Shapes Checklist

Record the modeling of flat shapes and the number of sides and corners/vertices students use to describe it's parts.

Key: √ if student builds 2-D/flat shape correctly. √ if student identifies correct number of sides. √ if student identifies correct number of corners/vertices.

															
Student Names	Builds Shape	Identifies 4 Sides	Identifies 4 Corners	Builds Shape	Identifies 3 Sides	Identifies 3 Corners	Builds Shape	Identifies 4 Sides	Identifies 4 Corners	Builds Shape	Identifies 6 Sides	Identifies 6 Corners	Builds Shape	Identifies 0 Sides	Identifies 0 Corners

CCSS Mathematics Assessment Task

Scoring Guide/Rubric (a score should be awarded for each criterion below)			
Criteria (CCSS code)	**0 points**	**1 Point**	**2 Points**
Compare similarities and differences of two-dimensional shapes. (K.G.4)	Student accurately names number of sides and number of corners/vertices of 0-2 2-D/flat shapes.	Student accurately names number of sides and number of corners/vertices of 3-4 2-D/flat shapes.	Student accurately identifies number of sides and number of corners/vertices of all 5 2-D/flat shapes.
Builds shapes from components. (K.G.5)	Student does not accurately build any 2-D/flat shapes using toothpicks and yarn.	Student accurately builds 1-4 2-D/flat shapes using toothpicks and yarn.	Student accurately builds all 5 2-D/flat shapes using toothpicks and yarn.

CCSS Mathematics Assessment Task