**Kelly**

**Standard**

MCC.2.G.1 Recognize and draw shapes having specified attributes, such as a given number of angles or a given number of equal faces. Identify triangles, quadrilaterals, pentagons, hexagons, and cubes.

**Essential Questions**

How do we use the terms sides and vertices to describe geometric figures?

How do we describe geometric figures?

**Materials**

*The Shape of Things*

Tangrams

Crayons

Handout

Promethean Board

Computers

**Objectives**

Students will draw a robot using plane shapes.

Students will label the shapes used in their robot.

Students will write a story about their robot.

Students will solve tangram puzzles on the computer.

Students will complete a webquest.

**Learning Activities**

Engage: The teacher will introduce the unit on shapes using the YouTube video/song. Then the teacher will read the book *The Shape of Things*. The students will help create an anchor chart by sharing their observations about shapes from the book.

Explore: The students will create a robot from shapes and draw the food that a robot will eat for lunch.

Explain: The students will label each piece of their robot using the shape vocabulary from the chart.

Elaborate: Students will create a story about their robot. They could write a narrative paragraph, telling about a day in the life of a robot; an advertisement or persuasive paragraph, telling all the uses of the robot; or a descriptive paragraph, telling about all the shapes that make up the robot.

Evaluate: The teacher will check the students’ drawings and labels as they complete their robots. The students will proofread each other’s stories.

Extend: Students will use the computer and/or SmartBoard to create pictures using tangrams. Students will complete one of the webquests according to their ability: Bethany’s Quilt will be used as a challenge and Second Grade Math (Geometry) will be used as reinforcement.

**Formative Assessments**

The teacher will monitor & provide help as needed while the students make their robots. They may make corrections if they mislabeled any shapes.

Students will proofread each other’s paragraphs using a proofreading checklist. Students will then correct and recopy their paragraphs in their neatest handwriting. Then they will put all their drawings and stories together to make a class book on shapes.

A rubric will be used to evaluate the webquest titled Bethany’s Quilt.

A portfolio (folder) of completed tasks will be used for students to evaluate the webquest titled Second Grade Math (Geometry).

References

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