

First Grade - Real World Experience

Unit 3 - Shapes and Fractions

Essential Question: "What shapes do you find at a party?" "How can we divide a cake into equal pieces?"

Teacher Instructions:

This Real World Experience is completed throughout the 4 week unit. You will implement these activities with corresponding Topics within the unit.

Task 1 - Complete after topic of Properties of 2D shapes.

Task 2 - Complete after topic of Properties of 3D shapes.

Task 3 - Complete after topic of Properties of 3D shapes.

Task 4 - Complete after topic of Fourths/Quarters.

You will need to keep all Task work during the unit for summative assessment. Tasks 1-3 will be used for formative assessment. Task 4 will be used for summative assessment.

1. Read the attached scenario to the class.
2. For Task 1: Have prepared template of shapes on colored paper or card stock for students to use to make their invitations. You may use the same information for the party for the whole class. (date, time and location)
3. For Task 2: You may want to group your students in pairs or small groups of 4. You will need 1 bag of 3D shapes for each group. Be sure to include enough 3D shapes for each student in each group. (For example: if you have 4 students in a group, you will need 1 bag with 4 different 3D shapes in it. Once a student identifies a shape, he/she will take it out of the bag and pass it to the next student.) Teacher Note: the shapes in the bags could be the wooden solid shapes or you could put in everyday objects from your classroom or home.
4. For Task 3: Materials needed: construction paper and maybe tracers.
5. For Task 4: Use writing paper that has space for a picture at the top with lines for writing. The grading is on students' explanation of the math.

Scenario:

You are having a party! Your mom asks for your help. Using shapes and fractions you will be able to create invitations, design a cake and divide it equally to share with your friends.

Task 1: You will be given the following regular 2-D shapes; circle, square, triangle, trapezoid, rectangle, half-circle and quarter-circle. Using these shapes you will create an invitation for the party. Remember to include date, time and location of the party on the invitation.

Task 2: At the party you will play the "Solid Surprise" game! You will reach into a bag and describe a solid shape by feeling it and describing its attributes to your group. The other students will guess the shape based on your description.

Task 3: Now you need to design the cake. You need to start with a shape that can be divided into equal shares. You may use any 2D shapes you want to decorate your cake.

Task 4: All 3 of your guests have arrived. Now you need to cut your cake into equal shares for each of your guests and yourself to enjoy. Draw your cake and show how you will cut it into equal shares. After you draw, you will need to write an explanation of the shapes you used to decorate your cake and how you knew to cut it into equal shares.

Name: _____ Date: _____

Real World Experience: Scoring Guide

Essential Question: "What shapes do you find at a party?" "How can we divide a cake into equal pieces?"

	Solution	Notes
Meeting	Illustrates and divides cake accurately into 4 equal shares uses shape vocabulary accurately to describe their cake includes numbers to illustrate their thinking on how they knew to divide the cake into equal shares	
Developing	Correctly completes 2 of the 3 proficient criteria.	