

Look at My Face!

Purpose

Students will work with three-dimensional objects to identify triangles, rectangles, squares, and circles as faces (flat sides) of these shapes.

Materials

For the teacher: demonstration set of 3-dimensional objects (rectangular prism, cube, cylinder, square pyramid), overhead projector, overhead transparency of Black Line Master (BLM) *Student Recording Sheet*

For the students: additional shapes, copies of BLM *Student Recording Sheet*

Activity

A. Introduction

1. Using one of the three-dimensional solids, describe to students what you see.
2. Put the overhead transparency of the BLM *Student Recording Sheet* on the overhead projector and record as you model finding the faces of the solid.
3. Tell students that you are looking at a [*insert shape*] (e.g., rectangular prism) and you are going to look for squares (e.g., two squares on a rectangular prism).
4. Inform students that next you are going to look for circles (e.g., no circles on a rectangular prism).
5. Tell students that next you are going to look for triangles (e.g., no triangles on a rectangular prism).
6. Tell students that you are going to look for rectangles (e.g., four rectangles on a rectangular prism).

B. Student Activity

1. Distribute the BLM *Student Recording Sheet*.
2. Have students pass around the other solids and count their faces.
3. Direct students to record their results on the BLM.

**EXTENDING
THE****ACTIVITY**

Have students take home circle, square, rectangle, and triangle construction paper shapes and find objects that have these shapes as faces. Ask them to bring the objects to school for a display.

**MEETING
INDIVIDUAL****NEEDS**


Provide students who are having difficulty with this activity with two-dimensional shapes so that they can place them on the three-dimensional objects.


**Standards Link
1.4.4**

Questions for Review

Basic Concepts and Processes

Ask students about the BLM *Student Recording Sheet*:









 Show me the [*insert shape*] on this object.

 How did you decide what the faces are?

Name: _____

Student Recording Sheet

Look at each three-dimensional solid. Count and record how many squares, circles, rectangles, or triangles you see. Add the total number of faces.

3-D Solid	 Squares	 Circles	 Rectangles	 Triangles	Total Faces
 Rectangular Prism	2	0	4	0	6
 Cylinder					
 Square Pyramid					
 Cube					

Student Recording Sheet

Teacher Directions

Distribute the BLM *Student Recording Sheet* and have students record their results.

Answer Key

3-D Solid	Squares	Circles	Rectangles	Triangles	Total Faces
Rectangular Prism	2	0	4	0	6
Cube	6	0	0	0	6
Cylinder	0	2	0	0	2
Square Pyramid	1	0	0	4	5