



TEACHER PAGE

Lesson: 3-D Cubes

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New Arizona Math Strand 4 Geometry and Measurement **Grade 3**
Articulated 4M31-O2 Name concrete objects and pictures of three-dimensional solids (cones, spheres, prisms.) Three-dimensional figures first appear in grade 3.
Old Arizona Math Standard 4 Geometry Foundations 1 **Grades 1-3**
4MF1-PO3 Identify three-dimensional figures by name and/or attributes.

Learning Objectives: the student will be able to:

- Identify cubes as a 3-dimensional figure by name and attribute

Pre-entry: before this learning activity students should be introduced to specific geometrical vocabulary and concepts, such as, three-dimensional figure, square face, same/congruent, geometric shape, square, equal and line segment.

Modeling: Teacher presents lesson concepts. Students will work through numbers 1-4 (LOOK, SEE, TRY, and SHOW) on the left side of the screen.

Coaching: Students will read the section SAY WHAT? located at the top right side of the screen. This section reviews the concepts of three-dimensional figures, six square faces, and identifying same and congruent geometrical shapes.

Reflection: Students go to the SO WHAT? (ZZZZ) on the right side of the screen and considers different places where they find cube figures.

Exploration: Students go to the DIG DEEPER section on the right side of the screen to learn how to draw a three-dimensional cube without making it look flat.

Articulation: Students go to TALK ABOUT IT! on the lower right hand side of the screen. This section has a web-link students can go to the site click on activities and then click on the shadow activity. This is a short activity, which allows the student to determine the shadows of specific three-dimensional figures.

Follow-up:

For further investigation of three-dimensional objects, go to this site. The hands on activities can be printed or there interactive games.

<http://pbskids.org/cyberchase/classroom/lesson7.html>

Assessment:

Students will demonstrate their understanding of the identity of the cube as a three-dimensional figure (SHOW).

Note: This lesson has English, Navajo and Spanish narrations and scripts.

