



TEACHER PAGE

Lesson: More Prisms/Nets

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New Arizona Math Strand 4 Geometry and Measurement Grades 6, 7, 9-12

Articulated 4MH1-03 Make a net to represent a three-dimensional object;

4MH1-04 Make a three-dimensional model from a net; **4M61-03** Classify prisms, pyramids, cones, and cylinders by base shape and lateral surface shape; **4M61-04** Classify three-dimension figures by their attributes; **4M71-02** Classify three-dimensional solids by their configuration and properties.

Old Arizona Math Standard 4 Geometry Proficiency 2 Grade: 9-12

4MP1-PO3 Recognize the three-dimensional figure represented by a two-dimensional drawing e.g., figures represented by nets, sketches, and photographs.

Learning objectives: the student will be able to:

- recognize polygons by number of sides
- identify prisms by base shape
- recognize the net of a given prism

Overview:

This is a step-by-step process connecting polygons to the faces of prisms. The lesson moves deliberately through several figures and provides needed time to soak in the examples (regular and exceptions). A print activity in TRY will need paper, a printer, scissors and glue. To know or not to know prisms is the subject of the SHOW. **Note:** there is a net in one of the activities.

Classroom Management:

This can be used in large group lessons, small group, or individual assignments. Each student will move through the lesson at differing speeds.

Engaging Students:

Provide a variety of different type of prisms for students to see, touch and hold. These models may be purchased geometric models and/or they may be real-life examples e.g., hatbox, candy bar box (Toberlone™ candy bar), jewelry box.

Follow-up:

Find more mathematics teaching resources at: <http://www.evtpc.org/tutor> Have some modeling clay on hand for students to make a key shape in TALK ABOUT IT! Research and reporting on Frank Lloyd Wright is the focus of DIG DEEPER. Prisms of concert, steel and glass pose a problem to solve in the SO WHAT!

Assessment:

Multiple-choice questions must be correctly responded to in order to finish the lesson.

