Lesson: Sketching Prisms

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New Arizona Math Strand 4 Geometry and Measurement Grades 9-12
Articulated 4MH1-05 Draw 2- and 3-dimensional figures with appropriate labels.
Old Arizona Math Standard 4 Geometry Proficiency 1 Grades 9-12
4MP1-PO1 Sketch prisms, pyramids, cones, cylinders and spheres.

Learning objectives: the student will be able to:
• distinguish prisms from other 3-dimensional shapes
• identify attributes of a prism
• draw 3-dimensional figures (prisms) to demonstrate understanding.

Overview:
The student is guided through the process of sketching a prism using a drag and place technique.

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., food boxes, jewelry boxes, facial tissue boxes, etc.)

Follow-up:
Many extension opportunities are in the right buttons. In SO WHAT students can name the type of prisms in city buildings. DIG DEEPER: research George Hart and his prism art. There is a delightful origami web activity in TALK ABOUT IT.

Teacher Note:
This lesson might be used in the 8th grade to support Articulated PO4M81-03: Recognize the three-dimensional figure represented by a net.

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