



## TEACHER PAGE

**Lesson: Rectangular Prisms with Rikki**

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**New Arizona Math Strand 4 Geometry and Measurement Grades 3-4**

**Articulated 4M31-02** Name concrete objects and pictures of three-dimensional solids: cones, spheres and cubes; **4M41-02** Identify models or illustrations of prisms, pyramids, cones, cylinders and spheres.

**Old Arizona Math Standard 4 Geometry Foundations 1 Grades 1-3**

**PO3** Identify three-dimensional figures by name and/or attributes.

### **Materials:**

Pattern blocks

**Learning Objectives:** the student will be able to:  
Identify models and illustrations of rectangular prisms.

### **Overview:**

Rikki Rectangle grows in dimension to become a rectangular prism with 6 faces, 8 vertices and 12 edges. Rikki transcends 2-D to 3-D. Students have opportunities to select rectangular prisms from many different figures. This is the 5<sup>th</sup> Rikki lesson. Nets are defined in the DIG DEEPER. In the TALK ABOUT IT has a pattern of the net of a rectangular prism to print out and construct.

### **Engaging Students:**

Students are to find objects in the classroom and name the edges, vertices and faces, if possible. A list of any of the objects that are rectangular prisms that are mentioned should be kept on the chalkboard. The list should be used to introduce the concept of the lesson.

### **Follow-up:**

Students should identify rectangular prisms on a trip to a store. Determine the type of aisle with the most rectangular prisms: boxes, and name its merchandise. Students should analyze the reason certain merchandise would best be stored in rectangular prisms. Sorting classifying and building with pattern blocks gives a kinesthetic dimension to learning about rectangular prisms. Bring flattened store boxes, like Doughnut boxes, to school to make into 3-D shapes.

### **Assessment:**

Students must correctly identify rectangular prisms among other figures.

