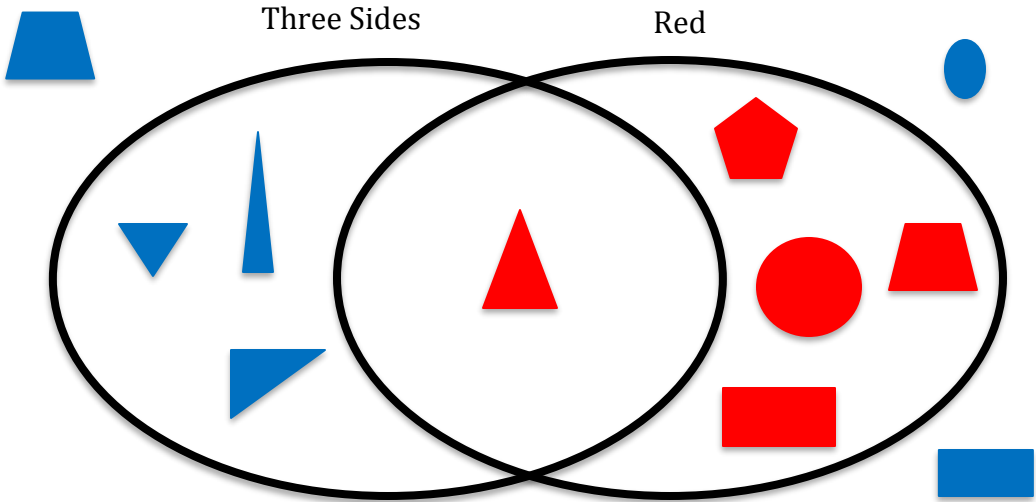
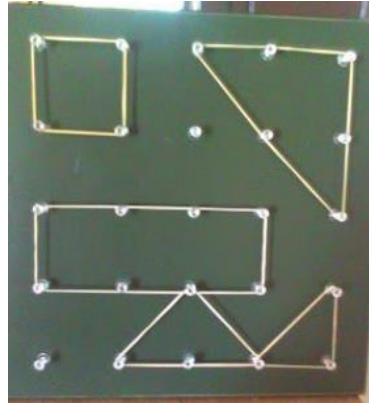


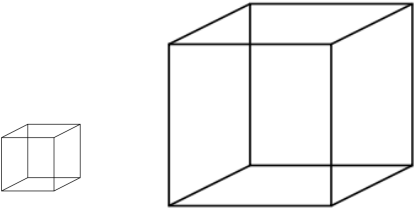
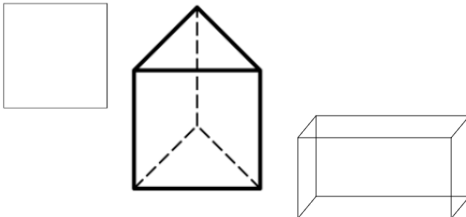
## Reason with Shapes and Defining Attributes

<p style="text-align: center;"><b>Overarching Student Learning Goals</b></p> <p style="text-align: center;">In this unit, your child will work to build an understanding of the following:</p>	<p style="text-align: center;"><b>Resources/Tasks to support your child at home.</b></p>
<p><b>Students can distinguish between defining and non-defining attributes.</b>  <b>Defining</b> means an attribute all shapes of this category possess, for example, all triangles have three straight sides and three vertices.  <b>Non-Defining</b> means attributes that are not specific to one given shape, for example color or size. “Red” is a non-defining attribute because any shape can be red.            Example:</p> 	<ul style="list-style-type: none"> <li>• Students can create their own shapes based on defining attributes using online <a href="https://www.mathlearningcenter.org/resources/apps/geoboard">Geoboards</a>. Give your child clues based on attributes such as “I’m thinking of a shape with 4 sides of the same length and 4 vertices.” <a href="https://www.mathlearningcenter.org/resources/apps/geoboard">https://www.mathlearningcenter.org/resources/apps/geoboard</a></li> <li>• Make your own Geoboard at home using cardboard and push pins.</li> </ul> 

Grade 1

**Students can create and justify examples and non-examples of a shape category.**

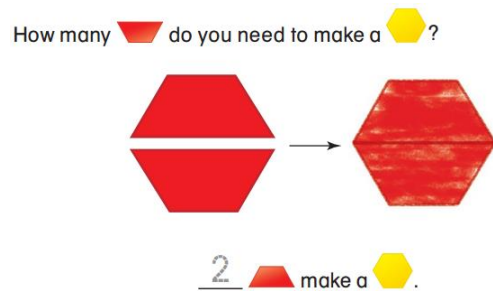
Example:

Cube	Non-Cube
	

- Virtual Manipulates – <http://goo.gl/u7R4aP> - Attribute Blocks – This interactive manipulative allows you to sort shapes based on a given attribute.
- Learnzillion – Defining Attributes - [https://learnzillion.com/lesson\\_plans/3863](https://learnzillion.com/lesson_plans/3863) - This interactive tutorial focuses defining and non-defining attributes of 2D shapes.
- Name My Shape – Describe attributes of a shape while partner tries to name/draw the shape.

**Students can put together shapes to make composite shapes.**

Example:



- Students can create their own [Shape Mosaic](https://www.education.com/game/create-mosaics-with-shapes/). Be sure to have your child name the shapes they are using and the shape they are creating.
- <https://www.education.com/game/create-mosaics-with-shapes/>