

# Mini-Map for M.EE.7.G.2 Subject: Mathematics

Geometry (G)

Grade: 7

# **Learning Outcome**

DLM Essential Element	Grade-Level Standard
M.EE.7.G.2 Recognize geometric shapes with given conditions.	M.7.G.2 Draw (freehand, with ruler and protractor, and with
	technology) geometric shapes with given conditions. Focus on constructing triangles from three measures of angles or sides,
	noticing when the conditions determine a unique triangle, more
	than one triangle, or no triangle.

# **Linkage Level Descriptions**

Initial Precursor	Distal Precursor	Proximal Precursor	Target	Successor
Recognize "same" as	Recognize two-	Communicate attribute	Recognize shapes with	Group together shapes
the object that shares	dimensional shapes	values of a shape, such	specified attributes	with specified attributes
all of the same	such as square, circle,	as number of sides or	(e.g., number of sides,	(e.g., number of sides,
attributes as other	triangle, or rectangle or	number of corners (e.g.,	number of vertices).	number of vertices).
objects in a group.	three-dimensional	a square has four sides).		
Recognize "different" as	shapes such as cube,			
the object that shares	cone, cylinder, or			
some or none of the	sphere.			
attributes as other				
objects in a group.				

# Initial Precursor and Distal Precursor Linkage Level Relationships to the Target

#### How is the Initial Precursor related to the Target?

Being able to recognize shapes given certain conditions requires a student to recognize when basic objects and shapes are the same or different. Work on this understanding by providing students with a shape and naming it (e.g., "this is a square" ). Then provide multiple examples of the same shape so students can make comparisons (e.g., focusing student attention on the characteristics that make this a particular shape [e.g., a square has 4 sides that are the same size]). As students explore shapes, label them and describe them as same or different.

NOTE: When presenting the same shape for comparison, do use shapes with different colors, textures, sizes, and orientation so that students understand the attribute that makes it that shape (e.g., 4 sides that are the same size).







#### How is the Distal Precursor related to the Target?

Now that students have experience identifying shapes as "same" and "different", provide instruction that focuses on the attribute of a given shape and making comparisons with other shapes. Educators should take care to use the names of the shapes while defining and describing the attributes. While students do not need to say the shape names, they do need to learn what makes a shape a shape (e.g., a square has four equal straight sides, a triangle has three straight sides, and a cone is an object that narrows from a circular base to a point).

# **Instructional Resources**

## **Released Testlets**

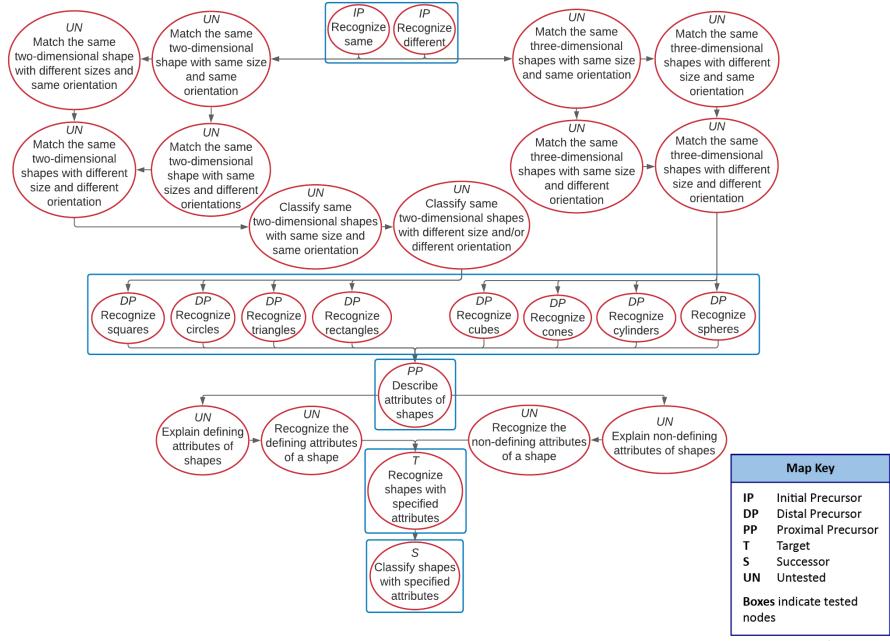
See the Guide to Practice Activities and Released Testlets.

# **Using Untested (UN) Nodes**

See the document <u>Using Mini-Maps to Plan Instruction</u>.

### **Link to Text-Only Map**

M.EE.7.G.2 Recognize geometric shapes with given conditions.



DLM Essential Element: M.EE.7.G.2