

Grade 7 Unpacked Math Standards - Geometry

7.G.1.1. Students are able to **identify, describe, and classify** polygons having up to 10 sides.

Webb level: 1/2

Bloom: Application

Verbs Defined:

Identify: name

Describe: explain

Classify: classify

Key Terms Defined:

Polygons up to 10 sides:

triangle: 3 sided polygon

quadrilateral: 4 sided polygon

pentagon: 5 sided polygon

hexagon: 6 sided polygon

heptagon: 7 sided polygon

octagon: 8 sided polygon

nonagon: 9 sided polygon

decagon: 10 sided polygon

Teacher Speak:

Students are able to identify (name) and classify polygons having up to 10 sides.

Students are able to describe (explain) relationships among triangles and quadrilaterals.

Student Speak:

I can

* name (identify/classify) a polygon with up to 10 sides

* explain (describe) the relationships among quadrilaterals

* explain (describe) the relationships among the different types of triangles

7.G.1.2. Students are able to **identify and describe** elements of geometric figures.

Webb level: 1

Bloom: Knowledge

Verbs Defined:

Identify: name/classify

Describe: explain

Key Terms Defined:

Elements of geometric figures:

altitude
midpoint
bisector
radius
diameter
chord

Teacher Speak:

Students are able to identify (name/classify) and describe (explain) the elements of geometric figures.

Student Speak:

I can name and classify (identify) and explain (describe) the definition of:

- * an altitude of a polygon
- * a midpoint of a line segment
- * a bisector of an angle or a line segment
- * a radius of a circle
- * a diameter of a circle
- * a chord of a circle

7.G.2.1. Students are able to **demonstrate** ways that shapes can be transformed.

Webb level: 2/3

Bloom: Application

Verbs Defined:

Demonstrate: determine

Key Terms Defined:

Types of Transformations: translation, reflection, and rotation

Teacher Speak:

Students are able to demonstrate (determine) ways that shapes can be transformed.

Student Speak:

I can determine (demonstrate) if a shape/picture has been:

- * translated (transformation)
- * reflected (transformation)
- * rotated (transformation)