

Grade 4 Unpacked Math Standards - Geometry

4.G.1.1. Students are able to **identify** the following plane and solid figures: pentagon, hexagon, octagon, pyramid, rectangular prism, and cone.

Webb Level: 1

Bloom: Knowledge

Verbs Defined:

Identify- recognize

Key Terms Defined:

Plane- flat surface that extends indefinitely in all directions

Polygon- a figure with at least 3 sides that has straight lines and connects at a point

Pentagon- polygon with five sides

Hexagon- polygon with six sides

Octagon- polygon with eight sides

Pyramid- a solid that has a polygon for a base and whose other faces are triangles that share a common vertex

Prism- three-dimensional figure that has two congruent parallel bases joined by the faces that are parallelograms

Rectangular prism- a prism with a rectangular base

Cone- a three-dimensional shape in space that has a circular base and one vertex

Teacher Speak:

Students are able to identify (recognize) plane and solid figures: pentagon, hexagon, octagon, pyramid, rectangular prism and cone

Student Speak:

I can recognize (identify) a pentagon (polygon with five sides).

I can recognize (identify) a hexagon (polygon with six sides).

I can recognize (identify) an octagon (polygon with eight sides).

I can recognize (identify) a pyramid (a solid that has a polygon for a base and whose other faces are triangles that share a common vertex).

I can recognize (identify) a rectangular prism (a prism with a rectangular base).

I can recognize (identify) a cone (a three-dimensional shape in space that has a circular base and one vertex).

4.G.1.2. Students are able to **identify** parallel, perpendicular, and intersecting lines.

Webb Level: 1

Bloom: Knowledge

Verbs Defined:

Identify- recognize

Key Terms Defined:

Parallel- lines that do not intersect

Perpendicular- two lines or line segments that intersect at right angles

Intersecting lines- lines that cross or meet

Teacher Speak:

Students are able to identify (recognize) parallel, perpendicular, and intersecting lines

Student Speak:

I can recognize (identify) parallel lines (lines that do not intersect).

I can recognize (identify) perpendicular lines (two lines or line segments that intersect at right angles).

I can recognize (identify) intersecting lines (lines that cross or meet).

4.G.2.1. Students are able to **compare** geometric figures using size, shape, orientation, congruence, and similarity.

Webb Level: 2

Bloom: Comprehension

Verbs Defined:

Compare- find likenesses and/or differences

Key terms defined:

Orientation- position in space; when figures are flipped or turned

Congruence- equal in measure

Similarity- likeness

Teacher Speak:

Students are able to compare (find likenesses/differences) geometric figures in terms of size, shape, orientation, congruence and similarity.

Student Speak:

I can find likenesses/differences of (compare) two shapes and decide if they are the same shape and size (congruent).

I can find likenesses/differences of (compare) two shapes and decide if they are the same shape but different size (similar).

I can recognize similar and congruent shapes even if they have been turned or flipped.

4.G.2.2. Students are able to **identify** a slide (translation) of a given figure.

Webb Level: 1

Bloom: Knowledge

Verbs Defined:

Identify- recognize and name

Key Terms Defined:

Slide(translation) - a motion in which every point of a figure moves the same distance and in the same direction. Sliding a figure from one position to another without turning or flipping the figure.

Teacher Speak:

Students are able to recognize a figure that has been moved from one position to another without flipping or turning(translation) as a slide.

Student Speak:

I can recognize (identify) a figure that has been moved from one position to another without flipping or turning as a slide (translation).

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