# Unit 9 Geometric Probability

Content Area: **Special Education**
Course(s):
Time Period: **September**
Length: **6 weeks**
Status: **Published**

## Enduring Understandings

Simple figures and shapes are a part of the larger understanding of complex geometric ideas.

Geometric relationships provide a means to make sense of a variety of phenomena.

## Essential Questions

When is an estimated answer acceptable?

When are exact answers required?

How are angles measured?

## Content

**Vocabulary**

Point

Line

Plane

Ray

Angle

Acute angle

Obtuse angle

Right angle

Polygon

Triangle

## Skills

Define, draw and recognize symbols for geometric shapes including a point, line, plane, ray, and angle.

Define a polygon.

Use a protractor to measure and classify angles as acute, obtuse, or right.

Define triangles by side lengths and angle measures.

## Resources

## Standards

**CCSS: Mathematics**

**CCSS: Grade 4**

**Geometry**

4.G.A. Draw and identify lines and angles, and classify shapes by properties of their lines and angles.

4.G.A.1. Draw points, lines, line segments, rays, angles (right, acute, obtuse), and perpendicular and parallel lines. Identify these in two-dimensional figures.

**CCSS: Grade 7**

**Geometry**

7.G.A. Draw construct, and describe geometrical figures and describe the relationships between them.

7.G.A.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.

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| MA.4.MD.C | Geometric measurement: understand concepts of angle and measure angles. |
| MA.4.G | Geometry |
| MA.4.G.A | Draw and identify lines and angles, and classify shapes by properties of their lines and |

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| | angles. |
| MA.4.G.A.1 | Draw points, lines, line segments, rays, angles (right, acute, obtuse), and perpendicular and parallel lines. Identify these in two-dimensional figures. |
| MA.4.G.A.2 | Classify two-dimensional figures based on the presence or absence of parallel or perpendicular lines, or the presence or absence of angles of a specified size. Recognize right triangles as a category, and identify right triangles. |
| MA.4.G.A.3 | Recognize a line of symmetry for a two-dimensional figure as a line across the figure such that the figure can be folded along the line into matching parts. Identify line-symmetric figures and draw lines of symmetry. |