MP4d-Lines, Angels, And Shapes

Content Area: **Mathematics**
Course(s): **Math 4 Resource Room**
Time Period: **Marking Period 4**
Length: **MP4 Topic 16 16-1 to 16-6**
Status: **Published**

Essential Questions

- How can you classify triangles and quadrilaterals?
- What is line symmetry?

Big Ideas

- **Use Line Relationships in Classifying Quadrilaterals:** Students learn about relationships between lines: parallel lines, intersecting lines, and perpendicular lines.
- **Classify Triangles and Quadrilaterals:** Students see that a triangle can be classified by properties of its sides, its angles, or both. Students are introduced to different triangles and quadrilaterals, are classified by properties of their sides and others are classified by a combination of properties of their sides and angles.
- **Recognize and Draw Line-Symmetric Figures:** Students recognize line-symmetric figures and draw their lines of symmetry. Students use a given figure and a line of symmetry to draw a line-symmetric figure.

CSDT Technology Integration

8.1.5.A.1 Select and use the appropriate digital tools and resources to accomplish a variety of tasks including solving problems.

Activity:
Students will work independently in the IXL program to answer questions about lines, angles, and shapes. The specific skills in IXL related to these standards are X1 - X9. The program will track students progress on these skills.

Enduring Understandings

Geometry

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

4.G.A.2[M] 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.

4.G.A.3[M] 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.

Mathematical Practices Focus

3. Construct viable arguments and critique the reasoning of others.