

Grade 4 Mathematics – Unit 4: Geometry

Phoenixville Area School District

Stage 1 Desired Results		
<p>PA Core Standards: <u>CC.2.3.4.A.1</u> Draw lines and angles and identify these in two-dimensional figures</p> <p><u>C.2.3.4.A.2</u> Classify two-dimensional figures by properties of their lines and angles</p> <p><u>CC.2.3.4.A.3</u> Recognize symmetric shapes and draw lines of symmetry</p> <p><u>CC.2.4.4.A.6</u> Measure angles and use properties of adjacent angles to solve problems</p> <p>PSSA Assessment Anchors: <u>M04.C-G.1.1</u> List properties, classify, draw, and identify geometric figures in two dimensions</p> <p><u>M04.D-M.3.1</u> Use appropriate tools and units to sketch an angle</p>	Transfer	
	<p>TRANSFER GOALS <i>Students will be able to independently use their learning to...</i></p> <ul style="list-style-type: none"> Mathematical Vocabulary: Interpret mathematical vocabulary and apply proper terminology to engage in meaningful oral and written expression that communicates mathematical thinking, problem-solving methods, and rationale. 	
	Meaning	
	<p>UNDERSTANDINGS <i>Students will understand that...</i></p> <ul style="list-style-type: none"> A shape's characteristics (dimensionality, side measures, angle measures, faces, edges, area, perimeter, and volume) are used for identification Points, lines, and planes are the building blocks of geometry 	<p>ESSENTIAL QUESTIONS <i>Students will keep considering...</i></p> <ul style="list-style-type: none"> What tools and units are used to measure the attributes of an object? How can we use attributes and properties to solve problems?
Knowledge and Skills Acquisition		
<p>KNOWLEDGE <i>Students will know...</i></p> <ul style="list-style-type: none"> There are different types of lines (parallel, perpendicular, intersecting) Lines that meet at a point form an angle Right, obtuse and acute are types of angles A protractor is a tool used to draw parallel and perpendicular lines/ measure angles Angles are measured in degrees 	<p>SKILLS <i>Students will be skilled at...</i></p> <ul style="list-style-type: none"> Draw points, lines, line segments, rays, angles, and perpendicular and parallel lines Identify points, lines, line segments, rays, angles, and perpendicular and parallel lines in two-dimensional figures Classify two-dimensional figures based on the presence or absence of angles of a specified size Recognize right triangles as a category, and identify right triangles 	
VOCABULARY		

and determine angle measurements	<ul style="list-style-type: none"> • Parallel • Perpendicular • Symmetrical • Rotational Symmetry • Adjacent angle 	<ul style="list-style-type: none"> • 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 mirroring parts • Identify line-symmetric figures and draw lines of symmetry (up to 2 lines)
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Stage 2 – Evidence

Code A/M/T	Evaluative Criteria	Assessment Evidence	
A/M/T Acquisition Meaning Making Transfer	<i>What criteria will be used in each assessment to evaluate attainment of the desired results?</i>	PERFORMANCE TASK(S) <i>Students will demonstrate understanding (meaning-making and transfer) through complex performance by...</i> <i>Symmetrical Patterns – See Assessment folder for directions, student worksheet and answers</i> <i>Quilt Making – See Assessment folder for directions, student worksheet and answers</i>	Differentiation Considerations: [Work on this section after completing Stages 1-2 of all units]
A/M/T Acquisition Meaning Making Transfer	<i>What criteria will be used in each assessment to evaluate attainment of the desired results?</i>	OTHER EVIDENCE Unit Test A: Angles/Perpendicular and Parallel Lines <ul style="list-style-type: none"> • See Math in Focus Chapter 7 • Multiple Choice • Fill in the blank • Open ended Response 	Differentiation Considerations: [Work on this section after completing Stages 1-2 of all units]