Grade 5 Mathematics – Unit 7: Coordinate Grids Phoenixville Area School District

	Stage 1 Desired Resu	ılts			
PA Core Standards:	Transfer				
CC.2.3.5.A.1 - Graph points in the first quadrant on the coordinate plane and interpret these points when solving real world and mathematical problems.	 TRANSFER GOALS Students will be able to independently use their learning to • Problem-Solving: Persistently apply various problem-solving strategies and organized approaches to accurately understand and solve problems. • 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				
PSSA Assessment Anchors: M05.C-G.1.1 - Identify parts of a coordinate grid and describe or interpret points given in an ordered pair.	 UNDERSTANDINGS Students will understand that Points, lines, and planes are the building blocks of geometry. Organizing/interpreting data helps us make inferences and draw conclusions. Various mathematical representations are useful for problem solving and communicating a solution. 	 ESSENTIAL QUESTIONS Students will keep considering How can models and graphs be used to share and understand information? How do we use data to make decisions? 			
	Knowledge and Skills Acquisition				
	 KNOWLEDGE Students will know Ordered pairs are comprised of an x-coordinate (first), and a y-coordinate (second) separated by a comma, enclosed in parentheses. A coordinate grid (quadrant 1) consists of an x and y axis, which meet at an origin (0,0). 	 SKILLS Students will be skilled at Identifying points on a coordinate grid using ordered pairs, in multiple choice format. Determining the distance between two points, in multiple choice format. Identifying which points fall within a specified figure on a coordinate grid, in multiple choice format. 			

•	Real-world p	roble	ms can	be solve	ed by
	interpreting p	ooints	plotted	on a coo	ordinate
	grid.				

- Data presented in a table can be used to create ordered pairs.
- Coordinate grids can be used to solve real-world problems.

 Interpreting coordinate grids to solve realworld problems by focusing on labels of x and y axes, in multiple-choice and openended situations.

VOCABULARY

- Coordinate Grid
- Origin
- Ordered Pair
- Coordinates
- X-Axis
- Y-Axis

Stage 2 – Evidence

Code A/M/T	Evaluative Criteria	Assessment Evidence	
A/M/T Acquisition Meaning Making Transfer	What criteria will be used in each assessment to evaluate attainment of the desired results?	PERFORMANCE TASK(S) Students will demonstrate understanding (meaning-making and transfer) through complex performance by Archeologist Site Map Performance Task • Goal: Your task is to plot four points on a coordinate grid and determine the distances between the points. • Role/Audience: You are an archeologist who is creating a map for a fossil digging site. • Situation/Product: You will plot four points on a coordinate grid and determine the distances between certain points. • Success Criteria: You will have correctly plotted your four points and have the correct distances between the points that have been asked.	Differentiation Considerations: [Work on this section after completing Stages 1-2 of all units]

		MIF Chapter 7 Performance Task (Only #s 2-3 pertain to coordinate grids) Workbook pages 116-117	
A/M/T	What criteria will	OTHER EVIDENCE	Differentiation Considerations:
Acquisition Meaning Making Transfer	be used in each assessment to evaluate attainment of the desired	 Math in Focus Chapter 7 Test (Use only portions relevant to coordinate grids) Multiple Choice True/False Matching Constructed Response Prompts 	[Work on this section after completing Stages 1-2 of all units]
	results?	 Canvas Quiz – Shared to commons Search "5th grade MIF Ch. 7: Lesson 2, Coordinate Grid Quick Quiz" 	