

TEKS Cluster: Graphing on Coordinate Plane

TEKS Subcluster: Coordinate Plane

Student Expectations: 5.8(A), 5.8(B), 5.8(C) – Connected SEs: 5.4(C), 5.5(A)

Activities Summary: Students learn to graph points on the coordinate plane. Then they use verbal descriptions and number machines to make graphs and write equations. Activities may be organized and delivered in two topics: **Graphing Points on the Coordinate Plane** and **Algebraic Reasoning with Verbal Descriptions, Graphs, Number Machines, and Tables**.

Activity Title Student Expectations	Activity Topic	Type			Delivery		
		new learning	intervention	practice	teacher-facilitated	small groups	stations
Graphing Points on the Coordinate Plane							
The Coordinate Plane 5.8(A)	Identify the Features and Points of the Coordinate Plane Students learn what a coordinate plane is, its vocabulary, and that points can be named according to their location on a graph.	✓			✓		
Learn to Graph Points on a Coordinate Plane 5.8(B), 5.8(C)	Graph Ordered Pairs Students graph points and choose statements that match the description of how they graphed the points.	✓	✓		✓		
Where’s ____? 5.8(B), 5.8(C)	Solve Problems by Graphing Ordered Pairs Students solve problems by locating points on the coordinate plane.			✓		✓	
Coordinate Plane Hide and Seek 5.8(B), 5.8(C)	Solve Problems by Graphing Ordered Pairs Students solve problems by locating points on the coordinate plane.			✓		✓	
In, On, or Outside? 5.8(C)	Find Points In, On, or Outside of a Polygon Students locate points that are in, on, or outside of a polygon.	✓	✓		✓		
Making Polygons 5.5(A), 5.8(C)	Find Points In, On, or Outside of a Polygon Students complete polygons by graphing points.			✓		✓	
Algebraic Reasoning with Verbal Descriptions, Graphs, Number Machines, and Tables							
Making Graphs 5.4(C), 5.8(C)	Given a Verbal Description, Make a Graph Students use real-world descriptions to make a table and write the points generated by the numerical relationship in the description. They label the x- and y-axis with information from the description and graph the points.	✓			✓		
Find the Matches 5.8(C)	Match Tables and Graphs Students match tables and graphs and decide if the numerical relationship is additive or multiplicative.		✓	✓		✓	
Number Machine → Table → Graph 5.8(C)	Use a Number Machine to Make a Table and Graph Students use a number machine to make a table, write points, and graph them.			✓		✓	