

Topic: UNIT 4 GRAPHING LINEAR EQUATIONS and FUNCTIONS

Days: 17

Subject(s):

Grade(s):

Know:

Understand:

Do:

Key vocabulary	Graphing, Solving, and applying properties of Linear Equations and Functions in Slope-Intercept Form and Real-World situations.	Represent functions as rules and tables.
Plots in a coordinate Plane		Represent functions as graphs.
Concept of a function		Graph Points on a Coordinate Plane
Rules of a function table		Graph a Linear Equation
Difference between a function and a relation		Perform operations with a Linear Equation using fractions and decimals
Represent functions as rules and tables		Graph using a slope-Intercept Form
Represent functions as rules and tables		
Represent functions as graphs		
Linear Equations		
Intercepts		
Slope and Rate of Change		
Direct Variation		
Linear Functions		

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Which standards are students learning in this unit?

MA.912.A.2.3: Describe the concept of a function, use function notation, determine whether a given relation is a function, and link equations to functions.

MA.912.A.2.4: Determine the domain and range of a relation.

MA.912.A.3.7: Rewrite equations of a line into slope-intercept form and standard form.

MA.912.A.3.8: Graph a line given any of the following information: a table of values, the x- and y-intercepts, two points, the slope and a point, the equation of the line in slope-intercept form, standard form, or point-slope form .

MA.912.A.3.9: Determine the slope, x-intercept, and y-intercept of a line given its graph, its equation, or two points on the line.

MA.912.A.3.12: Graph a linear equation or inequality in two variables with and without graphing technology. Write an equation or inequality represented by a given graph.

MA.912.G.1.4: Use coordinate geometry to find slopes, parallel lines, perpendicular lines, and equations of lines.

