

Topic: Unit 4: Linear Functions and Relations

Days: 14

Subject(s):

Grade(s):

Know:

Understand:

Do:

<p>Key vocabulary</p> <p>Transform linear equations</p> <p>Slope-Intercept and Standard Form</p> <p>Parallel and Perpendicular Lines</p> <p>Scatter Plot and Line Fits</p> <p>Regression and Median Fit</p>	<p>Graphing, solving and <b>applying</b> Linear Equations with Slope-Intercept Form and model real-world data.</p>	<p>Graph equations in Slope-Intercept Form</p> <p>Write equations in Slope-Intercept Form</p> <p>Solve equations for Parallel and Perpendicular Lines</p> <p>Complete a Scatter Plot Graph and a Line of Fit</p>
---	--	--

Topic: Unit 4: Linear Functions and Relations

Days: 14

Subject(s):

Grade(s):

Which standards are students learning in this unit?

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.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.3.10:Write an equation of a line given any of the following information:two points on the line, its slope and one point on the line, or its graph. Also, find an equation of a new line parallel to a given line, or perpendicular to a given line, through a given point on the new line.

MA.912.A.3.11:Write an equation of a line that models a data set, and use the equation or the graph to make predictions. Describe the slope of the line in terms of the data, recognizing that the slope is the rate of change.

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.