

Topic: Unit 4: Linear Functions and Relations
 Subject(s):

Days: 13
 Grade(s):

Key Learning: Graphing, solving and applying Linear Equations with Slope-Intercept Form and model real-world data.



Unit Essential Question(s): **How are Graphing, Solving and Applying Linear Equations use to solve real world problems?**

Concept: Graphing	Concept: Algebraic	Concept: Real World Applications
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<p>Lesson Essential Question(s): How do you graph a linear equation using the Slope-Intercept formula ? (A)</p> <p>How do you graph Lines of Fit to evaluate and make predictions? (A)</p>	<p>Lesson Essential Question(s): How do you write a linear equation into the Slope-Intercept form when given the slope and one point and when given two points? (A)</p> <p>How do you write a linear equation into Point -Slope Form ? (A)</p> <p>How do you write an equation of a line which passes through a given point that is Parallel and/or Perpendicular to a given line? (A)</p>	<p>Lesson Essential Question(s): How do you use Slope-Intercept form and Line of Best Fit? (A)</p>
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<p>Vocabulary: Slope-Intercept Form, Bivariate data, Scatter Plot, Line of Fit, Linear interpolation, Step Function, Piecewise-linear function, Greatest Integer function, Absolute value function, Piecewise-defined function</p>	<p>Vocabulary: linear extrapolation, point -slope form, parallel lines, perpendicular lines</p>	<p>Vocabulary: best fit line, linear regression, correlation coefficient, median-fit line</p>
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Additional Information:
 Sections 4.1, 4.2, 4.3, 4.4, 4.5, 4.6

Attached Document(s):

Vocab Report for Topic: Unit 4: Linear Functions and Relations
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Concept: Graphing

Slope-Intercept Form, Bivariate data, Scatter Plot, Line of Fit, Linear interpolation, Step Function, Piecewise-linear function, Greatest Integer function, Absolute value function, Piecewise-defined function -

Concept: Algebraic

linear extrapolation, point -slope form, parallel lines, perpendicular lines -

Concept: Real World Applications

best fit line, linear regression, correlation coefficient, median-fit line -