



Curriculum Units by Fellows of the National Initiative

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## **The FAL of Linear Relationships: Simple and Complex Word Problem Scenarios with Two Variables**

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This curriculum unit will require students to read word problem scenarios involving linear relationships, and determine the relationship between independent ( $x$ ) and dependent ( $y$ ) variables. The problems will gradually increase in complexity as the unit progresses. Class discussions and related assignments will help lead to interpretation of a rate of change in relation to the slope of a line in a graph describing the scenario. Students will progress to recognizing rate of change in everyday situations and will eventually be able to interpret that rate of change using multiple forms: word problem scenarios, tables of values, graphs, and linear equations in slope-intercept form. Emphasis will be placed on understanding the relation between dependent and independent variables for linear functions.

(Developed for Common Core State Standards Integrated Mathematics I (CCSS Math 1), grades 9-10; recommended for Common Core Mathematics for Middle School, grades 7-8; Summer Bridge Programs for Incoming Ninth Graders, grades 8-9; and Common Core Mathematics - Traditional Algebra I, grades 9-10)

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