

Hickman County Curriculum Map

Seventh Grade

Mathematics

Fourth Six Weeks

Grade Level Expectations	Checks for Understanding	Student Performance Indicator(s)
<p>GLE 0706.3.7 Use mathematical models involving linear equations to analyze real-world phenomena.</p>	<p>0706.1.6 Develop meaning of intercept and rate of change in contextual problems.</p> <p>0706.3.2 Represent and analyze mathematical situations using algebraic symbols.</p> <p>0706.3.6 Understand that the graph of a linear function f is the set of points on a line representing the ordered pairs $(x, f(x))$.</p> <p>0706.3.9 Identify a function exhibiting a constant rate of change as a linear function and identify the slope as a unit rate.</p> <p>0706.3.10 Solve problems involving unit rates (e.g., miles per hour, words per minute).</p> <p>0706.3.11 Relate the features of a linear equation to a table and/or graph of the equation.</p> <p>0706.3.12 Use linear equations to solve problems and interpret the meaning of slope, m, and the y-intercept, b, in $f(x) = mx + b$ in terms of the context.</p> <p>0706.3.13 Given a graph that exhibits the intersection of a line and the y-axis, write a linear</p>	<p>SPI 0706.3.7 Translate between verbal and symbolic representations of real-world phenomena involving linear equations.</p>

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	<p>function in slope-intercept form: $y = mx + b$.</p> <p>0706.4.5 Solve problems using ratio quantities: velocity (measured in units such as miles per hour), density (measured in units such as kilograms per liter), pressure (measured in units such as pounds per square foot), and population density (measured in units such as persons per square mile).</p>	
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Unit Review and Assessment

<p>GLE 0706.3.8 Use a variety of strategies to efficiently solve linear equations and inequalities.</p>	<p>0706.2.5 Understand that $-(-a) = a$ for any number a.</p> <p>0706.3.2 Represent and analyze mathematical situations using algebraic symbols.</p> <p>0706.3.5 Plot points to represent tables of linear function values.</p> <p>0706.3.6 Understand that the graph of a linear function f is the set of points on a line representing the ordered pairs $(x, f(x))$.</p> <p>0706.3.11 Relate the features of a linear equation to a table and/or graph of the equation.</p> <p>0706.3.12 Use linear equations to solve problems and interpret the meaning of slope, m, and the y-</p>	<p>SPI 0706.3.6 Solve linear equations with rational coefficients symbolically or graphically.</p> <p>SPI 0706.3.8 Solve contextual problems involving two-step linear equations.</p> <p>SPI 0706.3.7 Translate between verbal and symbolic representations of real-world phenomena involving linear equations.</p>
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	<p>intercept, b, in $f(x) = mx + b$ in terms of the context.</p> <p>0706.3.13 Given a graph that exhibits the intersection of a line and the y-axis, write a linear function in slope-intercept form: $y = mx + b$.</p>	
GLE 0706.3.8 Use a variety of strategies to efficiently solve linear equations and inequalities.	<p>0706.3.14 Understand that when solving linear inequalities, multiplication or division by a negative reverses the inequality symbol.</p> <p>0706.3.11 Relate the features of a linear equation to a table and/or graph of the equation.</p> <p>0706.3.12 Use linear equations to solve problems and interpret the meaning of slope, m, and the y-intercept, b, in $f(x) = mx + b$ in terms of the context.</p> <p>0706.3.13 Given a graph that exhibits the intersection of a line and the y-axis, write a linear function in slope-intercept form: $y = mx + b$.</p>	SPI 0706.3.9 Solve linear inequalities in one variable with rational coefficients symbolically or graphically.

Unit Review and Assessment

GLE 0706.5.2 Select, create, and use appropriate graphical representations of	<p>0706.5.1 Create and interpret box-and-whisker plots and stem-and-leaf plots.</p> <p>0706.5.2 Interpret and solve problems using information presented in various visual forms.</p>	<p>SPI 0706.5.1 Interpret and employ various graphs and charts to represent data.</p> <p>SPI 0706.5.2 Select suitable graph types (such as bar graphs, histograms, line graphs, circle graphs, box-</p>
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data.	0706.5.6 Apply percentages to make and interpret histograms and circle graphs.	and-whisker plots, and stem-and-leaf plots) and use them to create accurate representations of given data. **NOTE: This lesson extends into the fifth six weeks.
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