

Hickman County Curriculum Map

Eighth Grade

Mathematics

Third Six Weeks

Grade Level Expectations	Checks for Understanding	Student Performance Indicator(s)
<p>GLE 0806.3.2 Represent, analyze, and solve problems involving linear equations and inequalities in one and two variables.</p> <p>GLE 0806.3.3 Solve systems of linear equations in two variables.</p>	<p>0806.3.3 Solve systems of linear equations in two variables and relate the systems to pairs of lines that intersect, are parallel, or are the same line.</p>	<p>SPI 0806.3.2 Solve the linear equation $f(x) = g(x)$</p> <p>SPI 0806.3.1 Find solutions to systems of two linear equations in two variables.</p>

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<p>GLE 0806.3.4 Translate among verbal, tabular, graphical and algebraic representations of linear functions.</p> <p>GLE 0806.3.5 Use slope to analyze situations and solve problems.</p> <p>GLE 0806.3.2</p>	<p>0806.3.6 Identify x- and y-intercepts and slope of linear equations from an equation, graph or table.</p> <p>0806.3.9 Given a function rule, create tables of values for x and y, and plot graphs of nonlinear functions.</p> <p>0806.3.7 Analyze situations and solve problems involving constant rate of change.</p> <p>0806.3.8 Recognize a proportion as a special case of a linear equation and understand that the constant of proportionality is the slope, and the resulting graph is a line through the origin.</p>	<p>SPI 0806.3.4 Translate between various representations of a linear function.</p> <p>SPI 0806.3.6 Analyze the graph of a linear function to find solutions and intercepts.</p> <p>SPI 0806.3.5 Determine the slope of a line from an equation, two given points, a table or a graph.</p>
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<p>Represent, analyze, and solve problems involving linear equations and inequalities in one and two variables.</p>	<p>0806.3.2 Represent algebraic relationships with equations and inequalities.</p> <p>0806.3.4 Understand the relationship between the graph of a linear inequality and its solutions.</p> <p>0806.3.5 Solve linear inequalities in two variables (including those whose solutions require multiplication or division by a negative number).</p> <p>0806.3.13 Represent situations and solve real-world problems using symbolic algebra.</p>	<p>SPI 0806.3.3 Solve and graph linear inequalities in two variables.</p>
<p>GLE 0806.3.6 Compare and contrast linear and nonlinear functions.</p>	<p>0806.3.10 Distinguish quadratic and exponential functions as nonlinear using a graph and/or a table of values.</p>	<p>SPI 0806.3.7 Identify, compare and contrast functions as linear or nonlinear.</p>

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	<p>0806.3.11 Distinguish between the equations of linear, quadratic, and exponential functions (e.g. function families such as $y=x^2$, $y=2^x$, and $y=2x$).</p> <p>0806.3.12 Understand how rates of change of nonlinear functions contrast with constant rates of change of linear functions.</p>	
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