

# Hickman County Curriculum Map

Seventh Grade

Mathematics

## First Six Weeks

Grade Level Expectations	Checks for Understanding	Student Performance Indicator(s)
GLE 0706.2.5 Understand and work with squares, cubes, square roots and cube roots.	<p>0706.1.3 Check answers both by estimation and by appropriate independent calculations, using calculators or computers judiciously.</p> <p>0706.2.9 Efficiently compare and order rational numbers and roots of perfect squares/cubes; determine their approximate locations on a number line.</p> <p>0706.2.10 Recognize that when a whole number is not a perfect square, then its square root is not rational and cannot be written as the ratio of two integers</p> <p>0706.2.11 Estimate square/cube roots and use calculators to find approximations. 0706.2.12 Recognize <math>\sqrt{mn} = \sqrt{m} \cdot \sqrt{n}</math> and <math>(\sqrt{m})^2 = m</math>.</p> <p>0706.3.1 Perform basic operations on linear expressions (including grouping, order of operations, exponents, simplifying and expanding).</p>	<p>SPI 0706.2.3 Use rational numbers and roots of perfect squares/cubes to solve contextual problems.</p> <p>SPI 0706.2.4 Determine the approximate location of square/cube roots on a number line.</p>
GLE 0706.2.1 Extend understandings of addition, subtraction, multiplication and division	0706.2.2 Develop and analyze algorithms and compute efficiently with integers and rational numbers.	SPI 0706.2.5 Solve contextual problems that involve operations with integers.

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<p>to integers.</p> <p>and</p> <p>GLE 0706.1.8 Use technologies/manipulatives appropriately to develop understanding of mathematical algorithms, to facilitate problem solving, and to create accurate and reliable models of mathematical concepts.</p>	<p>0706.2.4 Understand that <math>a</math> and <math>-a</math> are additive inverses and are located the same distance from zero on the number line; relate distance from zero to absolute value.</p> <p>0706.2.5 Understand that <math>-(-a) = a</math> for any number <math>a</math>.</p> <p>0706.2.6 Use the number line to demonstrate addition and subtraction with integers.</p> <p>0706.2.9 Efficiently compare and order rational numbers and roots of perfect squares/cubes; determine their approximate locations on a number line.</p>	
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### Unit Review and Assessment

<p>GLE 0706.2.2 Understand and work with the properties of and operations on the system of rational numbers.</p>	<p>0706.1.3 Check answers both by estimation and by appropriate independent calculations, using calculators or computers judiciously.</p> <p>0706.2.2 Develop and analyze algorithms and compute efficiently with integers and rational numbers.</p> <p>0706.3.1 Perform basic operations on linear expressions (including grouping, order of</p>	<p>SPI 0706.2.1 Simplify numerical expressions involving rational numbers.</p>
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	operations, exponents, simplifying and expanding).	
GLE 0706.1.4 Move flexibly between concrete and abstract representations of mathematical ideas in order to solve problems, model mathematical ideas, and communicate solution strategies.	Simple arithmetic and geometric patterns	SPI 0706.1.2 Generalize a variety of patterns to a symbolic rule from tables, graphs, or words.

### Unit Review and Assessment