Helena-West Helena School District

Year at a Glance

Subject: Math   Grade: 6th

Unit or Content	TLI Module	SLE Frameworks	Prerequisites	Texts	Essential Question	Mathematical Vocabulary	Mathematical Practice
1. **Number System Fluency**	3 1 1 2 2 2 1 3	6.NS.4 (a,b) 6.NS.2 6.NS.1 6.RP.1 6.RP.2 6.RP.3 6.NS.3 6.NS.4(c)	multiply whole numbers	**McGraw/Hill, pgs.** 7-14 215-230 297-332 15-26 27-38 15-78 177-213 EngageNY TLI State of Georgia, Department of Education Betterlesson.com Harcourt Math	How can estimating be helpful? What does it mean to multiply and divide fractions?	Ratio Rate Unit rate Unit price Relationship Quantities Equivalent - ratio Coordinate-plane Standard-algorithm Dividend Divisor Remainder Quotient Factor GCF Multiple LCM Distributive - property	1. Make sense of problems and persevere in solving them 2. Reason abstractly and quantitatively 3. Construct viable arguments and critique the reasoning of others 4. Model with mathematics 5. Use appropriate tools strategically 6. Attend to precision 7. Look for and make use of structure.

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2. Properties of Operations: Expressions and Equations	3 3 3 3 3 6 6 4 4 4	6.EE.3 6.EE.1 (b) 6.EE.4 6.EE.1 (a) 6.EE.2(a,b,c) 6.G.1 6.G.2 6.EE.6 6.EE.7 6.EE.5		**McGraw Hill, pgs.** 476-502 433-448 493-502 657-724 735-757 449-594 521-568 513-568 EngageNY TLI Stae of Georgia, Department of Education BetterLesson. com Harcourt Math Singapore Math	How is it helpful to write numbers in different ways? How do you determine if two numbers or expressions are equal?	Equivalent - expressions Commutative - property Associative - property Base Exponent Numerical - expression Sum Difference Term Product Factor Quotient Coefficient Arithmetic - expression Order of - operations Algebraic- expression Variable Constant Algebraic - equation Rational numbers Equation	1. Make sense of problems and persevere in solving them 2. Reason abstractly and quantitatively 3. Construct viable arguments and critique the reasoning of others 4. Model with mathematics 5. Use appropriate tools strategically 6. Attend to precision 7. Look for and make use of structure.

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3. **Number System Application: Equations, Rational Numbers,**	1 1 4 4 1 1 1 6	6.NS.5 (a,b) 6.NS.6 (a,b)(A,B) 6.EE.8 6.EE.9 (A,B) 6.NS.7 6.NS.8 6.G.3 6.G.4		**McGraw Hill** 343-373 375-410 615-642 579-613 353-378 403-414 705-712 755-790 EngageNY TLI State of Georgia, Department of Education BetterLesson.com Harcourt Math Singapore Math Arkansas Dept of Education US Dept of Education Coreguides.com PARCC	How are symbols such as <, >, and + useful?	Positive Negative Opposite Rational- numbers Integer Coordinate –plane Ordered pair Quadrant Reflection Inequality Independent – variable Dependent – variable Absolute value Magnitude Coordinates X-coordinate Y-coordinate Vertex/vertices Polygon Right rectangular prism Right- triangular - prism right square - pyramid Right -tetrahedron Net Surface area Function Composite figure Function rule Function table	1. Make sense of problems and persevere in solving them 2. Reason abstractly and quantitatively 3. Construct viable arguments and critique the reasoning of others 4. Model with mathematics 5. Use appropriate tools strategically 6. Attend to precision 7. Look for and make use of structure.

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4. **Statistics and Probability**	5 5 5 5 5	6.SP.4 6.SP.1 6.SP.2 6.SP.3 6.SP.5		**McGraw Hill pgs.** 863-900 805-827 879-898 805-836 817-918 **EngageNY** **TLI** **State of Georgia, Department of Education** **BetterLesson.com** **Harcourt Math** **Singapore Math** **US Dept. of Education** **Arkansas Dept. of Education** **Coreguides.com** **PARCC**	How are the mean, median, and mode helpful in describing data?	Variability Distribution-Center Spread Mean Median Mode Measure of - variation Range Interquartile-range Extremes Lower quartile Upper quartile Outlier Mean absolute deviation (MAD) Line plot Dot plot Histogram Lower extreme Upper extreme Box plot Data set Measure of-variability	1. Make sense of problems and persevere in solving them 2. Reason abstractly and quantitatively 3. Construct viable arguments and critique the reasoning of others 4. Model with mathematics 5. Use appropriate tools strategically 6. Attend to precision 7. Look for and make use of structure.

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