Helena-West Helena School District

Year at a Glance

Subject: Math Grade: 4th

Unit or Content	TLI Module	SLE Frameworks	Prerequisites	Texts	Essential Question	Mathematical Vocabulary	Mathematical Practice
1. Geometry	1 (New)	4.G.1 4.G.2 4.G.3 4.MD.5 4.MD.6 4.MD.7 4.OA.5		My Math: Vol.2 Chapter 14 Chapter 7 Lesson 1	How are different ideas about geometry connected? How are angles classified? How can objects be represented and compared using geometric attributes? How are one, two, or three-dimensional shapes described and classified? How are patterns used in mathematics?	Pattern Nonnumeric pattern Point Line Line segment Ray Endpoint Parallel Perpendicular Intersecting Angle Degree One-degree angle Acute angle Obtuse angle Right angle Straight angle Protractor Right triangle Acute triangle Obtuse triangle Rectangle Rhombus Square trapezoid	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.

						Line of symmetry Line symmetry	8. Look for and express regularity in repeated reasoning.
2. Number Sense: A. Place Value	1(New)	4.NBT.1 4.NBT.2 4.NBT.3	Round whole number to the nearest 10 & 100	My Math: Vol.1 Chapter 1	How does place value help represent the value of numbers? How are place value patterns repeated in large numbers?	Digit Expanded form Equal to (=) Greater than (>) Less than (<) Number line Period Place value Standard form Word form	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

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							strategically 6. Attend to precision 7. Look for and make use of structure. 8. Look for and express regularity in repeated reasoning.
B. Add & Subtract	1(New)	4.NBT.4 4.OA.3a 4.OA.5	Fluently add & Subtract within 1,000 Two Step Problems	My Math: Vol.1 Chapter 2 Chapter 7 Lesson 2-5	What strategies can I use to add or subtract? How are patterns used in mathematics? What is the relationship between patterns & functions?	Associative Property of Addition Commutative Property of Addition Identity Property of Addition Distributive Property of Addition Equation Addend	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

						Sum Minuend Subtrahend Difference Unknown Variable Regroup Operation Pattern Numeric pattern Input Output Rule Sequence Term	appropriate tools strategically 6. Attend to precision 7. Look for and make use of structure. 8. Look for and express regularity in repeated reasoning.
C. Multiplication & Division	2(New) 1,2,3,5 2,3,5,6 3&4 3&4 3&4 4&5	4.NBT.5 4.NBT.6 4.OA.1 4.OA.2 4.OA.3b 4.OA.4 4.OA.5	Fluently multiply & divide within 100 Understanding of add & multiply properties Two Step problems	My Math: Vol.1 Chapter 3-6 Chapter 7 Lesson 6-9	How are multiplication & division related? How can I communicate multiplication? How can I multiply by a two-digit number? How does division affect numbers? How are patterns	Associative Property of Multiplication Commutative Property of Multiplication Identity Property of Multiplication Zero Property of Multiplication Distributive Property of	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

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					used in mathematics? What is the relationship between patterns & functions	Multiplication Decompose Fact family Multiple Operation Factor Product Partial products Regroup Dividend Divisor Quotient Partial quotients Compatible numbers Remainder Pattern Numeric pattern Input Output Rule Sequence Term	5. Use appropriate tools strategically 6. Attend to precision 7. Look for and make use of structure. 8. Look for and express regularity in repeated reasoning.
3. Fractions	3(New)	4.NF.1 4.NF.2 4.NF.3 4.NF.4 4.NF.5 4.NF.6	Parts of a fractions Recognize simple equivalent fractions	My Math: Vol.2 Chapter 8-10	How are fractions used in real life? Why is it important to compare fractions?	Composite number Prime number Factor pairs Greatest common factor Least common	1. Make sense of problems and persevere in solving them 2. Reason abstractly and

		4.NF.7			How can different fractions name the same amount? How can I use operations to model real-world fractions? How are fractions and decimals related? How are numbers that represent decimals compared?	multiple Fraction Numerator Denominator Equivalent fractions Benchmark fractions Equivalent fractions Simplest form Improper fractions Mixed number Like fractions Decimal Tenth Hundredth	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. 8. Look for and express regularity in repeated reasoning.
4. Measurement	3(New)	4.MD.1 4.MD.2 4.MD.3 4.MD.4	Measure liquid volume & mass Multiply & divide to solve word problems	My Math: Vol.2 Chapter 11-13	How are units of measure related? Why do we convert measurements? How can	Customary system Length Inch (in) Foot (ft) Yard (yd) Mile (mi)	1. Make sense of problems and persevere in solving them 2. Reason abstractly and quantitatively

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					conversion of measurements help me solve real-world problems? How are perimeter and area related? Why is it important to measure perimeter & area?	Capacity Fluid ounce (fl oz) Cup (c) Pint (pt) Quart (qt) Gallon (gal) Weight Ounce (oz) Pound (lb) Ton (T) Convert Line plot Metric system Meter (m) Centimeter (cm) Millimeter (mm) Kilometer (km) Liter (L) Milliliter (mL) Mass Gram (g) Kilogram (kg) Area Perimeter Square unit Unit square	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. 8. Look for and express regularity in repeated reasoning.
5. Review & Continuation of all CCSS with a focus on:	4(New)			My Math: Vol. Chapter 2-6; 8	What strategies can I use to add or subtract?	Operation Order of operations Equation	1. Make sense of problems and persevere in solving them

A. Four Operations B. Equivalent Fractions C. Factors & Multiples		4.NBT.4 4.NBT.5 4.NBT.6 4.OA.1 4.OA.2 4.OA.3 4.OA.4 4.NF.1 4.NF.1			How are multiplication & division related? How can I multiply by a two digit number? How does division affect numbers? How can different fractions name the same amount?	Fact family Addend Sum Minuend Subtrahend Difference Regroup Factor Product Dividend Divisor Quotient Remainder Composite Prime Factor pairs Greatest common factor Least common multiple Equivalent Fractions Simplest form	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. 8. Look for and express regularity in repeated reasoning.