



Mathematical Practices Grades K - 8

- 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.**
- 8. Look for and express regularity in repeated reasoning.**



4th Grade Mathematics Curriculum Map

Trimester	Unit of Study	Illinois Learning Standards	Mathematical Practice Standard	Learning Targets
1	Multiplicative Thinking	3.OA.4 4.OA.1 4.OA.2 4.OA.3 4.OA.4 4.NBT.1 4.NBT.5 4.NBT.6 4MD.1 4.MD.2 4.MD.3	4.MP.1 4.MP.2 4.MP.3 4.MP.4 4.MP.5 4.MP.6 4.MP.7 4.MP.8	<p>Unit 1-</p> <p>Module 1:</p> <p>I can solve story problems using multiplication or division.</p> <p>I can multiply with products to 100 using strategies.</p> <p>I can find all factor pairs for a whole number between 1 and 100.</p> <p>I can write a multiplication equation to represent a multiplicative comparison.</p> <p>I can use an area model to explain strategies for dividing a multi-digit number by a 1-digit number.</p> <p>I can divide a 2-digit by a 1-digit number, using strategies.</p> <p>Module 2:</p> <p>I can find factors of numbers from 1 to 36</p> <p>I can describe prime and composite numbers.</p> <p>I can use my multiplication strategies to solve multiplication facts I don't know yet.</p> <p>I can use my multiplication strategies to build arrays up to 100</p> <p>I can use multiplication strategies to learn multiplication facts for 4 and 6</p> <p>I can use multiplication strategies to solve division problems.</p> <p>Module 3:</p> <p>I can find factors and factor pairs for different products.</p> <p>I can show what I know on the Multiplication and Division checkpoint.</p> <p>I can understand multiplicative comparisons.</p> <p>I can make and record multiplicative comparisons.</p> <p>Unit 2-</p>



	Multi-Digit Multiplication & Early Division			<p>Module 1: I can build arrays up to 1,000 I can show what I know on the Unit 2 Pre-Assessment. I can measure area using metric units. I can multiply by 10 using 1 and 2-digit factors I can use arrays to solve 2-by-2-digit multiplication problems</p> <p>Module 2: I can sketch rectangular arrays with and without base 10 grid paper. I can sketch rectangular arrays without using base 10 grid paper. I can use arrays to multiply by 10, 100, and 1,000 I can use ratio tables to solve multi-digit multiplication.</p> <p>Module 3: I can solve single-step story problems involving division with remainders. I can solve single-step story problems involving division with a remainder. I can solve single-step story problems involving division with remainders</p> <p>Module 4: I can solve single-step story problems involving division with remainders. I can solve single-step story problems involving division with a remainder. I can solve single-step story problems involving division with remainders. I can solve single-step story problems involving division with remainders. I can show what I know on my Unit 2 Post Assessment.</p>
2	Multi-Digit Multiplication & Early Division Fractions and Decimals	<p>4.OA.3 4.OA.4</p> <p>4.NBT.1 4.NBT.5 4.NBT.6</p> <p>4MD.1 4.MD.2 4.MD.3</p> <p>4.NF.1 4.NF.2</p>	<p>4.OA.3 4.OA.4</p> <p>4.NBT.1 4.NBT.5 4.NBT.6</p> <p>4MD.1 4.MD.2 4.MD.3</p> <p>4.NF.1 4.NF.2</p>	<p>Unit 3- Module 1: I can use a visual model to explain why two fractions are equivalent.</p> <p>Module 2: I can use a visual model to generate and recognize equivalent fractions I can add fractions with like denominators.</p> <p>Module 3: I can use a geoboard to transition from a fraction to a decimal. I can use base 10 pieces to express decimals in tenths and hundredths.</p> <p>Module 4:</p>



		<p>4.NF.3 4.NF.3 a-d 4.NF.4 a-b 4.NF.5 4.NF.6 4NF. 7</p>	<p>4.NF.3 4.NF.3 a-d 4.NF.4 a-b 4.NF.5 4.NF.6 4NF. 7</p>	<p>I can investigate the relationship between fractions and decimals by modeling. I can also place decimals and fractions on a class number line.</p>
3	<p>Addition, Subtraction, and Measurement</p> <p>Multiplication & Division, Data & Fractions</p> <p>Reviewing & Extending Fractions, Decimals & Multi-Digit Multiplication</p> <p>Playground Design</p>	<p>4.OA.3 4.OA.4 4.OA.5</p> <p>4.NBT.1 4.NBT.2 4.NBT.3 4.NBT.4 4.NBT.5 4.NBT.5 b 4.NBT.6 4.NBT.7</p> <p>4.G.1 4.G.2</p> <p>4.NF.1 4.NF.2 4.NF.5 4.NF.6 4.NF.7</p>	<p>4.OA.3 4.OA.4 4.OA.5</p> <p>4.NBT.1 4.NBT.2 4.NBT.3 4.NBT.4 4.NBT.5 4.NBT.5 b 4.NBT.6 4.NBT.7</p> <p>4.G.1 4.G.2</p> <p>4.NF.1 4.NF.2 4.NF.5 4.NF.6 4.NF.7</p>	<p>Unit 4- Module 1: I can read and write multi-digit whole numbers represented with numerals. I can fluently add and subtract multi-digit whole numbers, using an algorithm or other strategy. I can round multi-digit whole numbers to the nearest hundred, thousand, ten thousand, hundred thousand, and million.</p> <p>Module 2: I can fluently add and subtract multi-digit whole numbers, using an algorithm or other strategy (such as standard, removal, differencing, and constant difference). I can solve story problems involving distance using addition and subtraction of whole numbers.</p> <p>Module 3: I can identify the relative sizes of metric measurements (ex: centimeters, meters, kilometers, milliliters, and liters). I can solve story problems involving distance, intervals of time, liquid volume, and mass using addition, subtraction, multiplication, and division of whole numbers. I can solve story problems that involve expressing measurements given in a larger unit in terms of a smaller unit within the same system of measurement.</p> <p>Module 4: I can determine the median, mode, and range of a set of data consisting of whole numbers. I can make a line plot to display a data set consisting of measurements taken in halves of a unit.</p>