## HUDSONVILLE PUBLIG SCHOOLS ELEMENTARY GOURSE FRAMEWORK

GOURSE/SUBJEGT

| UNIT PACING <br> Names of units and approximate pacing | LEARNING TARGETS Students will be able to... | STANDARD <br> Which Common Core standards does this address? | ASSESSMENTS Which assessments are given to determine student growth? |
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| Math Expression Common Core <br> Unit 1: Place Value and Multi-digit Addition and Subtraction <br> September/October | - I can solve multi-step word problems using +, -, x, \&, /. <br> - I can write an equation to show a word problem and use a letter in place of the unknown number. <br> - I can determine if an answer is reasonable using mental math or estimation. <br> - I can see that in a multi-digit number, a digit in one place is ten times larger than what it represented in the place to its right. <br> - I can read and write multi-digit whole numbers using digits, number names and expanded form. <br> - I can compare 2 multi-digit numbers using $<,>,=$. <br> - I can use what I know about place value to round multi-digit numbers to any place. <br> - I can fluently add multi-digit numbers using the standard algorithm. <br> - I can fluently subtract multi-digit numbers using the standard algorithm. <br> - I can use $+,-, x, \& /$ to solve word problems with distance, time, liquid volume, mass, and money. | $\begin{aligned} & \text { 4.OA.3 } \\ & \text { 4.NBT.1 } \\ & \text { 4.NBT.2 } \\ & \text { 4.NBT.3 } \\ & \text { 4.NBT.4 } \\ & \text { 4.MD.2 } \end{aligned}$ | Unit 1 Quick Quizzes <br> Unit 1 Assessments |
| Math Expression Common Core <br> Unit 2: Multiplication with Whole Numbers <br> October/November | - I can solve multi-step word problems using,+- , x, \&, /. <br> - I can write an equation to show a word problem and use a letter in place of the unknown number. <br> - I can determine if an answer is reasonable using mental math or estimation. <br> - I can see that in a multi-digit number, a digit in one place is ten times larger than what it represented in the place to its right. <br> - I can read and write multi-digit whole numbers using digits, number names and expanded form. <br> - I can compare 2 multi-digit numbers using $<,>,=$. <br> - I can use what I know about place value to round multi-digit numbers to any place. <br> - I can multiply up to a 4 -digit number by a 1 -digit number using place value strategies and the properties of operations. <br> - I can draw and explain a multiplication problem using equations, rectangular arrays, and/or area models. <br> - I can use,,+- x, \& / to solve word problems with distance, time, liquid volume, mass, and money. | $\begin{aligned} & \text { 4.OA.3 } \\ & \text { 4.NBT.1 } \\ & \text { 4.NBT.2 } \\ & \text { 4.NBT.3 } \\ & \text { 4.NBT. } 5 \\ & \text { 4.MD.2 } \end{aligned}$ | Unit 2 Quick Quizzes <br> Unit 2 Assessments |


| Math Expression Common Core <br> Unit 3: Division with Whole Numbers <br> December | - I can solve multi-step word problems using +, -, x, \&, /. <br> - I can interpret a remainder in a word problem. <br> - I can write an equation to show a word problem and use a letter in place of the unknown number. <br> - I can determine if an answer is reasonable using mental math or estimation. <br> - I can divide up to a 4-digit number by a 1-digit number using place value strategies, properties of operations, and/or the relationship between multiplication and division. <br> - I can draw and explain a division problem using equations, rectangular arrays, and/or area models. | $\begin{aligned} & \text { 4.OA. } 3 \\ & \text { 4.NBT. } 6 \end{aligned}$ | Unit 3 Quick Quizzes <br> Unit 3 Assessments |
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| Math Expression Common Core <br> Unit 4: Equations and Word Problems <br> January | - I can understand a multiplication equation as a comparison, (e.g., $35=5 \times 7$ means that 35 is 5 times as many as 7 and 7 times as many as 5 ). <br> - I can multiply or divide to solve word problems by using drawings and equations. <br> - I can use a symbol in an equation to represent an unknown number. <br> - I can tell the difference between "how much more" (additive comparison) and "how many times larger" (multiplicative comparison) problems. <br> - I can solve multi-step word problems using +, -, x, \&, /. <br> - I can interpret a remainder in a word problem. <br> - I can write an equation to show a word problem and use a letter in place of the unknown number. <br> - I can determine if an answer is reasonable using mental math or estimation. <br> - I can find all the factor pairs for a number between 1-100. <br> - I can understand that a number is a multiple of each of its factors. <br> - I can figure out if a number between 1-100 is a multiple of a 1-digit number. <br> - I can figure out if a number between 1-100 is a prime or composite number. <br> - I can create a number or shape pattern that follows a given rule. <br> - I can find other patterns within the sequence and explain why the numbers continue to follow the pattern. <br> - I can fluently add multi-digit numbers using the standard algorithm. <br> - I can fluently subtract multi-digit numbers using the standard algorithm. <br> - I can multiply up to a 4-digit number by a 1-digit number using place value strategies and the properties of operations. <br> - I can draw and explain a multiplication problem using equations, rectangular arrays, and/or area models. <br> - I can divide up to a 4-digit number by a 1-digit number using place value strategies, properties of operations, and/or the relationship between multiplication and division. <br> - I can draw and explain a division problem using equations, rectangular arrays, and/or area models. | $\begin{aligned} & \text { 4.OA. } 1 \\ & \text { 4.OA. } 2 \\ & \text { 4.OA.3 } \\ & \text { 4.OA.4 } \\ & \text { 4.OA.5 } \\ & \text { 4.NBT.4 } \\ & \text { 4.NBT.5 } \\ & \text { 4.NBT.6 } \\ & \text { 4.MD. } 2 \end{aligned}$ | Unit 4 Quick Quizzes <br> Unit 4 Assessments |


| Math Expression Common Core <br> Unit 5: Measurement <br> February | - I can understand the size of measurements including $\mathrm{km}, \mathrm{m}, \mathrm{cm} ; \mathrm{kg}, \mathrm{g} ; \mathrm{lb}$, oz.; l, ml; hr, min, sec. <br> - I can convert larger units of measurement to smaller units of measurement. <br> - I can record equivalent measurements in a 2 column table. <br> - I can create a conversion table for feet and inches. <br> - I can use $+,-, \mathrm{x}, \& /$ to solve word problems with distance, time, liquid volume, mass, and money. <br> - I can show measurements using diagrams such as number lines with a measurement scale. <br> - I can use the area and perimeter formulas for rectangles to solve real world and math problems. | $\begin{aligned} & \text { 4.MD. } 1 \\ & \text { 4.MD. } 2 \\ & \text { 4.MD. } 3 \\ & \text { 4.MD. } 4 \end{aligned}$ | Unit 5 Quick Quizzes <br> Unit 5 Assessments |
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| Math Expression Common Core <br> Unit 6: Fraction Concepts and Operations <br> March | - I can compare two fractions with different numerators and different denominators. <br> - I can understand that I can compare factions only when they are part of the same whole. <br> - I can compare fractions using $<,>,=$. <br> - I can explain fraction comparisons using visual (or other) fraction models. <br> - I can understand that when I add or subtract fractions they must be part of the same whole. <br> - I can break apart a fraction into a sum of fractions with the same denominator in more than one way (i.e., $3 / 8=1 / 8+1 / 8+1 / 8$ AND $3 / 8=$ $1 / 8+2 / 8)$. <br> - I can use a visual fraction model to show why each way works. <br> - I can add mixed numbers with the same denominators. <br> - I can subtract mixed numbers with the same denominators. <br> - I can solve fraction addition and subtraction word problems when the fractions have the same denominator by using visual fraction models and equations. <br> - I can understand that when I add or subtract fractions they must be part of the same whole. <br> - I can break apart a fraction into a sum of fractions with the same denominator in more than one way (i.e., $3 / 8=1 / 8+1 / 8+1 / 8$ AND $3 / 8=$ $1 / 8+2 / 8)$. <br> - I can use a visual fraction model to show why each way works. <br> - I can add mixed numbers with the same denominators. <br> - I can subtract mixed numbers with the same denominators. <br> - I can use $+,-, \mathrm{x}, \& /$ to solve word problems with distance, time, liquid volume, mass, and money. | 4.NF. 2 <br> 4.NF. 3 <br> 4.NF.3a <br> 4.NF.3b <br> 4.NF.3c <br> 4.NF.3d <br> 4.NF. 4 <br> 4.NF. 4 a <br> 4.NF.4b <br> 4.NF.4c <br> 4.MD. 1 <br> 4.MD. 2 <br> 4.MD. 3 | Unit 6 Quick Quizzes <br> Unit 6 Assessments |




