## HUDSONVILLE PUBLIG SCHOOLS ELEMENTARY GOURSE FRAMEWORK

GOURSE/SUBJEGT
Fifth Grade Math

| UNIT PACING Names of units and approximate pacing | LEARNING TARGETS <br> 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: Addition and Subtraction with Fractions | - I can add fractions and mixed numbers with unlike denominators by finding common denominators. <br> - I can subtract fractions and mixed numbers with unlike denominators by finding common denominators. <br> - I can add and subtract fractions and mixed numbers with unlike denominators to solve word problems. <br> - I can tell if my answer is reasonable by using mental math and estimation. | 5.NF. 1 <br> 5.NF. 2 <br> 5.MD. 2 | Unit 1 Quick Quizzes <br> Unit 1 Assessment |
| September/October |  |  |  |
| Math Expression Common Core <br> Unit 2: Addition and Subtraction with Decimals <br> October/November | - I can see that in a multi-digit number, a digit in one place is ten times what it represented in the place to its right. <br> - I can see that in a multi-digit number, a digit in one place is $1 / 10$ of what it would be in the place to its left. <br> - I can read and write decimals to thousandths in digits. <br> - I can read and write decimals to thousandths in words. <br> - I can read and write decimals to thousandths in expanded form. <br> - I can compare two decimals to thousandths using <, >, =. <br> - I can round decimals to any place. <br> - I can add, subtract, multiply, and divide decimals to the hundredths, using hands-on math tools, drawings, place value strategies, properties of operations, and the relationship between addition and subtraction. <br> - I can connect the strategy I used to a written method and explain why I did what I did. | 5.NBT. 1 <br> 5.NBT.3a 5.NBT.3b 5.NBT. 4 5.NBT. 7 | Unit 2 Quick Quizzes <br> Unit 2 Assessment |

## Math Expression <br> Common Core

Unit 3: Multiplication and Division with Fractions

November/December

- I can add and subtract fractions and mixed numbers with unlike denominators by finding common denominators.
- I can add and subtract fractions and mixed numbers with unlike denominators to solve word problems.
- I can tell if my answer is reasonable by using mental math and estimation.
- I can understand a fraction as a division problem.
- I can solve division word problems, where the answer is a fraction or mixed number, by using visual fraction models or equations to help me solve the problem.
- I can multiply a fraction by a whole number by drawing a picture of the whole number broken into the correct number of parts.
- I can multiply a fraction by a fraction by drawing a picture.
- I can multiply a fraction by a whole number by multiplying the numerator by the whole number and dividing by the denominator.
- I can multiply a fraction by a fraction by multiplying the numerators together and multiplying the denominators together.
- I can write a word problem to match a fraction multiplication problem.
- I can multiply the sides of a rectangle to find the area when the side lengths are fractions.
- I can show fraction products as rectangular areas.
- I can explain why multiplying a number by a fraction greater than 1 gives me an answer greater than the number I started with.
- I can explain why multiplying a number by a fraction less than 1 gives me an answer less than the number I started with.
- I can understand that when I multiply a fraction by $\mathrm{n} / \mathrm{n}$ to find an equivalent fraction it is the same as multiplying the fraction by 1.
- I can solve real world multiplication problems with fractions and mixed numbers, using visual fraction models or equations.
- I can divide a unit fraction by a whole number.
- I can write a word problem to match a unit fraction divided by a whole number problem.
- I can use a visual fraction model to show the answer to a problem where a unit fraction is divided by a whole number.
- I can use the relationship between multiplication and division to explain $1 / 3$ divided by $4=1 / 12$ because $(1 / 12) \times 4=1 / 3$.
- I can divide a whole number by a unit fraction.
- I can write a word problem to match a whole number divided by a unit fraction problem.
- I can use a visual fraction model to show the answer to problem where a whole number is divided by a unit fraction.
- I can use the relationship between multiplication and division to explain 4 divided by $1 / 5=20$ because $20 \times(1 / 5)=4$.
- I can solve real world problems involving division of unit fractions by whole numbers by using visual fraction models and equations.
- I can solve real world problems involving division of whole numbers by unit fractions by using visual fraction models and equations.



| Math Expression | - I can find the area of a rectangle with fractional side lengths by tiling it with unit squares. <br> - I can show that the area of the rectangle is the same as multiplying the side lengths. <br> - I can multiply the sides of a rectangle to find the area when the side lengths are fractions. <br> - I can show fraction products as rectangular areas. <br> - I can convert measurements within the metric system and within the customary system. <br> - I can use conversions to solve multi-step, real word problems. <br> - I can make a line plot to display measurements in fractions. <br> - I can use what I know about fraction addition, subtraction, multiplication and division to solve problems using the data on a line plot. <br> - I can understand that a cube with the side length 1 unit, "unit cube," has 1 cubic unit of volume. <br> - I can understand that a "unit cube" can be used to measure volume. <br> - I can understand that when a solid figure is filled with 25 unit cubes, it has the volume of 25 cubic units. <br> - I can measure volume by counting unit cubes (cubic cm, cubic in, cubic ft, and generic cubic units). <br> - I can find the volume of a rectangular prism (with whole number side lengths) by packing it with unit cubes. <br> - I can show that the volume is the same as it would be if I multiplied the three edge lengths. <br> - I can show that the volume is the same as it would be if I multiplied height by the area of the base. <br> - I can use the formulas $V=1 \mathrm{xwxh}$ and $\mathrm{V}=\mathrm{bxh}$ to find the volume of a rectangular prism with whole number side lengths in real world and math problems. | $\begin{aligned} & \text { 5.NF.4b } \\ & \text { 5.MD. } 1 \\ & \text { 5.MD. } 2 \\ & \text { 5.MD.3a } \\ & \text { 5.MD.3b } \\ & \text { 5.MD. } 4 \\ & \text { 5.M. } 5 \mathrm{a} \\ & \text { 5.MD.5b } \end{aligned}$ | Unit 8 Quick Quizzes <br> Unit 8 Assessment |
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| Common Core |  |  |  |
| Unit 8: Measurement and Data |  |  |  |
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| May/June |  |  |  |
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