

## Mathematics

### Unit 5: Number Sense

<b>Essential Understandings</b>	<ul style="list-style-type: none"> <li>▪ There are various ways to represent a number.</li> </ul>
<b>Essential Questions</b>	<ul style="list-style-type: none"> <li>▪ How can numbers be expressed, ordered, and compared?</li> <li>▪ What is standard form/notation?</li> <li>▪ What is expanded form/notation?</li> <li>▪ How does one round a number?</li> <li>▪ What is prime number?</li> <li>▪ What is a composite number?</li> <li>▪ What is a factor tree and how is it used?</li> <li>▪ How can one compare fractions?</li> <li>▪ How can one compare decimals?</li> <li>▪ How does one convert a fraction to its decimal equivalent?</li> <li>▪ How does one convert a decimal to its fractional equivalent?</li> </ul>
<b>Essential Knowledge</b>	<ul style="list-style-type: none"> <li>▪ Standard form/notation is the numeral written with one digit for each place value.</li> <li>▪ Expanded form/notation shows the place value of each digit.</li> <li>▪ One rounds a whole number to express it in a simplified form by finding the nearest ten, hundred, thousand, ten thousand, etc.</li> <li>▪ A prime number is a whole number that has exactly two different positive factors, itself and one.</li> <li>▪ A composite number has more than two factors.</li> <li>▪ A factor tree is a visual model that represents all factor pairs for a whole number.</li> <li>▪ Two fractions are equivalent if they are the same size or on the same point on a number line.</li> <li>▪ Fractions can be converted to its decimal equivalent.</li> <li>▪ Decimals can be converted to its fractional equivalent.</li> </ul>
<b>Vocabulary</b>	<ul style="list-style-type: none"> <li>▪ <u>Terms:</u> <ul style="list-style-type: none"> <li>○ prime, composite, factor trees, factors, thousandths, million, mixed numbers, improper fractions</li> </ul> </li> </ul>

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<b>Essential Skills</b>	<ul style="list-style-type: none"> <li>▪ Read, write, compare, order, and explain whole numbers to 1,000,000 in standard and expanded form including the use of <math>&lt;</math>, <math>&gt;</math>, and <math>=</math>. (I, R, A)</li> <li>▪ Round numbers up to and including the nearest million. (I, R, A)</li> <li>▪ Identify prime numbers and composites between 1 and 100. (I)</li> <li>▪ Use factor trees to write composite numbers as products of primes. (I)</li> <li>▪ Identify, read, write, and illustrate fractions of a whole or set with numerators and denominators from 2 to 10, 12, 16, 100, and 1000 using area, set, and length models. (I, R)</li> <li>▪ Use visual models to compare and order fractions with numerators and denominators from 2-10, 12, 100, and 1000. (I, R, A)</li> <li>▪ Recognize and generate equivalent fractions with denominators 2, 3, 4, 5, 6, 8, and 10 using visual models. (I, R, A)</li> <li>▪ Represent improper fractions as mixed numbers and mixed numbers as improper fractions using area, length, and set models. (I)</li> <li>▪ Recognize and write the decimal equivalents of tenths, hundredth, and thousandths. (I, R)</li> <li>▪ Compare, order, read, and round decimals to the hundredths. (I, R, A)</li> <li>▪ Convert from the fraction to the decimal form and the decimal form to the fraction for tenths, fourths, and halves. (I, R, A)</li> </ul>
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<p><b>Related Maine Learning Results</b></p>	<p>A. Number Whole Number A1.Students understand and use number notation and place value to 100,000 in numerals</p> <ul style="list-style-type: none"><li>a. Read and write numbers up to 100,000 in numerals and words.</li><li>b. Recognize the place values of digits in numbers to 100,000.</li><li>c. Compare and order numbers with up to five digits.</li><li>d. Round numbers to the nearest 100 or 1000.</li></ul> <p>*** NECAP requires 1 million.</p> <p>Rational Number A4. Students understand, name, compare, illustrate, combine, and use fractions.</p> <ul style="list-style-type: none"><li>a. Add and subtract fractions with like denominators and use repeated addition to multiply a whole number.</li><li>b. List equivalent fractions.</li><li>c. Add and subtract fractions with like denominators and use repeated addition to multiply a whole number.</li><li>d. List equivalent fractions.</li></ul> <p>A5.Students understand and use number notation and place value in numbers with two decimal places in real-world contexts including money.</p> <ul style="list-style-type: none"><li>a. Compare, order, read, round, and interpret decimals with up to two decimal places.</li><li>b. Add and subtract decimals with up to two decimal places.</li></ul>
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