

Mathematics
Unit 5: Number Sense

Essential Understandings	There are various ways to represent a number.
Essential Questions	- How does one identify a number as odd or even? - How can numbers be expressed, ordered, and compared? - What is standard form/notation? - What is expanded form/notation? - How does one round a number? - What is a fraction? - How can one compare fractions? - What is a decimal?
Essential Knowledge	- One uses the last digit of a numeral to determine if it is odd or even. - Standard form/notation is the numeral written with one digit for each place value. - Expanded form/notation shows the place value of each digit. - One rounds a whole number to express it in a simplified form by finding the nearest ten, hundred, thousand, etc. - Numbers can be used to describe and compare quantities. - Fractions and decimals represent parts of a whole. - Money can be written in decimal form.
Vocabulary	<u>Terms:</u> - standard form/notation, expanded form/notation, numerator, denominator, decimal, whole number, round, tenths, hundredths, equivalent
Essential Skills	- Recognize all odd and even numbers. (I, R, A) - Read, write, compare, order, and explain whole numbers to 100,000 in standard and expanded form including the use of $<$, $>$, and $=$. (I, R, A) - Round numbers up to and including the nearest thousands place. (I, R) - Identify, read, write, and illustrate fractions of a whole or a set with numerators and denominators from 2 to 10 using area, set, and length models. (I) - Use visual models to compare and order fractions from smallest to largest with numerators and denominators from 2 to 10 and 100. (I, R, A) - Compare and order fractions with like numerators or denominators from 2 to 10. (I, R, A) - Recognize and write decimal equivalents of tenths and hundredths. (I, R, A) - Read and write decimals within context of money. (I, R, A)

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Related Maine Learning Results	A. Number Whole Number A1.Students understand and use number notation and place value to 10,000 in numerals. a. Read and write numbers up to 10,000 in numerals and words. c. Compare and order numbers with up to four digits. d. Round numbers to the nearest 100 or 1000. A2.Students understand and use procedures to add and subtract whole numbers with up to four digits. a. Display an understanding of the base ten place value system. Rational Number A4.Students recognize, name, compare, illustrate, and use simple fractions. a. Recognize, name, and illustrate fractions with denominators from two to ten. b. Recognize, name, and illustrate fractions with denominators from two to ten.
NECAP	NECAP Number and Operations M (N & O) 3-1 Demonstrates conceptual understanding of rational numbers with respect to; whole numbers from 0 – 999 through equivalency, composition, decomposition, or place value using models, explanations, or other representations; and positive fractional numbers as part to whole relationship in area and set models where the number of parts in the whole is equal to the denominator; and decimals (within the context of money) as a part of 100 using models, explanations, or other representations.