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EDTL 7100

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**Fractions Unit Intended Learning Outcomes for Grade 6**

**Sub Unit 1: Simplifying Techniques**

* Students will be able to develop fluency in addition, subtraction, multiplication, and division of non-negative rational numbers.
  + Analyze computational strategies. {Analysis}
  + Describe the effect of operations on size. {Knowledge}
  + Judge the reasonableness of solutions. {Evaluation}
* Students will be able to develop fluency in the use of factors, multiples, exponential notation, and prime factorization. {Synthesis}
* Students will be able to develop flexibility in solving problems by selecting strategies and using mental computation, estimation, calculators or computers, and paper and pencil. {Synthesis}

**Sub Unit 2: Naming Fractions**

* Students will be able to develop fluency in the use of factors, multiples, exponential notation, and prime factorization. {Synthesis}
* Students will be able to simplify algebraic expressions and verify the results using the basic properties of rational numbers. {Synthesis}

**Sub Unit 3: Adding & Subtracting Fractions**

* Students will be able to develop fluency in addition, subtraction, multiplication, and division of non-negative rational numbers.
  + Analyze computational strategies. {Analysis}
  + Describe the effect of operations on size. {Knowledge}
  + Estimate the results of computations. {Application}
  + Judge the reasonableness of solutions. {Evaluation}
* Students will be able to develop fluency in the use of factors, multiples, exponential notation, and prime factorization. {Synthesis}
* Students will be able to simplify algebraic expressions and verify the results using the basic properties of rational numbers. {Synthesis}
* Students will be able to develop flexibility in solving problems by selecting strategies and using mental computation, estimation, calculators or computers, and paper and pencil. {Synthesis}
* Students will be able to use and evaluate algebraic expressions. {Application, Evaluation}
* Students will be able to solve simple (one- and two-step) equations or inequalities. {Evaluate}

**Sub Unit 4: Multiplying & Dividing Fractions**

* Students will be able to develop fluency in addition, subtraction, multiplication, and division of non-negative rational numbers.
  + Analyze computational strategies. {Analysis}
  + Describe the effect of operations on size. {Knowledge}
  + Estimate the results of computations. {Application}
  + Judge the reasonableness of solutions. {Evaluation}
* Students will be able to develop fluency in the use of factors, multiples, exponential notation, and prime factorization. {Synthesis}
* Students will be able to simplify algebraic expressions and verify the results using the basic properties of rational numbers. {Synthesis}
* Students will be able to develop flexibility in solving problems by selecting strategies and using mental computation, estimation, calculators or computers, and paper and pencil. {Synthesis}
* Students will be able to use and evaluate algebraic expressions. {Application, Evaluation}
* Students will be able to solve simple (one- and two-step) equations or inequalities. {Evaluate}