

Unit Plan by Prioritized Standards

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| Content Area | Mathematics |
| Grade/Course | 4th Grade |
| Unit of Study | UNIT 2 Module 3, Engage NY, Operations and Algebraic Thinking |
| Duration of Unit | 27 days |

Insert priority standards below (include code). **CIRCLE or Highlight** the **SKILLS** that students need to be able to do and **UNDERLINE** the **CONCEPTS** that students need to know. (**address “supporting” standards in daily lesson plans**)

MGSE4.OA.3 **Solve** multi-step word problems posed with whole numbers and having whole-number answers **using** the four operations, including problems in which remainders must be interpreted. **Represent** these problems using equations with a letter standing for the unknown quantity. **Assess** the reasonableness of answers using mental computation and estimation strategies including rounding.

MGSE4.OA.2 **Multiply** or **Divide** to solve word problems involving multiplicative comparison, e.g., by using drawings, and equations with a symbol for the unknown number to **represent** the problem, distinguishing multiplicative comparison from additive comparison.

MGSE4.NBT.5 **Multiply** a whole number of up to four digits by a one-digit whole number, and **multiply** two two-digit numbers, using strategies based on place value and the properties of operations. **Illustrate** and **explain** the calculation by using equations, rectangular arrays, and/or area models.

MGSE4.NBT.6 **Find** whole-number quotients and remainders with up to four-digit dividends and one-digit divisors, using strategies based on place value, the properties of operations, and/or the relationship between multiplication and division. **Illustrate** and **explain** the calculation by using equations, rectangular arrays, and/or area models.

| Skills (what must be able to do) | Concepts (what students need to know) | DOK Level / Bloom's |
|--|---|---------------------------------------|
| Solve Represent Assess Use | Word problems Equations Reasonableness 4 operations Remainders Unknown quantity Mental computation Estimation strategies | Apply-2 Understand-1 Evaluate-3 |
| Multiply Divide Solve Represent | Word problems Multiplicative comparison Additive comparison | Understand-1 Analyze-4 |
| Multiply | Whole numbers | Apply-1 |

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| <p>Illustrate Explain</p> <p>Find Illustrate Explain</p> | <p>Two digit numbrts Four digit numbers Place value Properties of Operations Equations Rectangular Arrays Area Models</p> <p>Whole-number quotients Remainders Place value Properties of operations Equations Rectangular arrays Area models Four-digit dividends One-digit divisors Relationship between multiplication and division</p> | <p>Understand-1 Understand-2</p> <p>Understand-1 Understand-2 Understand-3</p> |
| <p>Step 5: Determine BIG Ideas (enduring understandings students will remember long after the unit of study)</p> | | <p>Step 6: Write Essential Questions (these guide instruction and assessment for all tasks. The big ideas are answers to the essential questions)</p> |
| <p>The student will be able to solve multi-step word problems (4 operations) with remainders and assess the reasonableness of their answers with rounding.</p> <p>Students will understand how to add, subtract, multiply, and divide when solving word problems involving whole numbers.</p> <p>Students will develop mental computation abilities to determine how reasonable their answer is, using rounding and estimation skills.</p> <p>The students will be able to use drawings or equations to solve for unknown in word problems requiring multiplication and/or division. (T)</p> <p>I can multiply or divide to solve word problems by using drawings or writing equations with a symbol for a missing number. (S)</p> <p>The students will be able to use properties of operations and understanding of place value to multiply 4 digits by 1 digit and 2 digits by 2 digits. Students will illustrate and</p> | <p>How do I solve multi step word problems using the four operations with remainders?</p> <p>How can I assess the reasonableness of my answer?</p> <p>How can I solve multiplication and division problems using multiplicative comparisons?</p> | |

