

## Unit Plan by Prioritized Standards

<b>Content Area</b>	Math
<b>Grade/Course</b>	5th grade
<b>Unit of Study</b>	Module 2 Multi-digit whole number & decimal fraction operations
<b>Duration of Unit</b>	28 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)

**MGSE5.NBT.5** Fluently multiply multi-digit whole numbers **using the standard algorithm** (or other strategies demonstrating understanding of multiplication up to a 3 digit by 2 digit factor.

**MGSE5.NBT.6** Fluently divide up to 4 digit dividends and 2-digit divisors by using at least one of the following methods: 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 or concrete models.** (E.g. rectangular arrays, area models)

Skills (what must be able to do)	Concepts (what students need to know)	DOK Level / Bloom's
Multiply 3 digit by 2 digit number  Divide 4 digit by 2 digit number  Explain calculations by using illustrations and/or words	1. Number sense to the tenths place 2. Place value of whole numbers through the millions place 3. Addition and subtraction of whole numbers 4. Representations of fractions as tenths 5. Expressing fractions as decimal numbers 6. Using a number line with decimals	3

**Step 5: Determine BIG Ideas** (enduring understandings students will remember long after the unit of study)

**Step 6: Write Essential Questions** (these guide instruction and assessment for all tasks. The big ideas are answers to the essential questions)

<ol style="list-style-type: none"> <li>1. The standard algorithm for multi-digit whole number multiplication</li> <li>2. Decimal multi-digit multiplication</li> <li>3. Measurement word problems with whole number and decimal multiplication.</li> <li>4. Mental strategies for multi-digit whole number division</li> <li>5. Partial Quotients and multi-digit decimal division</li> <li>6. Partial quotients for multi-digit whole number division</li> <li>7. Mental strategies for multi-digit whole number multiplication.</li> <li>8. Measurement word problems with</li> </ol>	<ol style="list-style-type: none"> <li>1. What strategies can we use to efficiently solve multiplication problems?</li> <li>2. What strategies can I use to multiply multi-digit decimals?</li> <li>3. How can I determine if my answer is reasonable for the context of the word problem?</li> <li>4. How can I use estimating/rounding in solving multi-digit multiplication?</li> <li>5. What strategies can I use for division of multi digit decimals?</li> <li>6. What strategies can I use for division of multi-digit whole</li> </ol>
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whole number and decimal division.	<p>numbers?</p> <p>7. How can I use rounding/estimating in solving multi-digit whole number multiplication?</p> <p>8. How can I determine if my answer is reasonable for the context of the the word problem.</p>
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**Essential Unit Vocabulary**

Algorithm, Dividend, Divisor, Product, Estimate, Digit, Equivalence, Equivalent Measures, Decimal Fraction, Parentheses, Pattern, Re-naming, Unit form, Equation, Expression, Measurement Division, Multiplicand, Multiplier, Order of Operations, Partition Division, Partial Product, Partial Quotient, Product, Properties of Operations, Quotient, Remainder, Tenths, Hundredths, Thousandths

**Next step, create assessments and engaging learning experiences**