

Unit Plan by Prioritized Standards

Content Area	7th Grade Math
Grade/Course	7th Math
Unit of Study	Unit 1
Duration of Unit	25 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)

MGSE7.NS.1d **Apply** properties of operations as strategies **to add and subtract rational numbers.**

MGSE7.NS.2a **Understand** that **multiplication is extended from fractions to rational numbers by requiring that operations continue to satisfy the properties of operations**, particularly the distributive property, leading to products such as $(-1)(-1) = 1$ and the rules for multiplying signed numbers. **Interpret** products of rational numbers by **describing** real-world contexts.

MGSE7.NS.2b **Understand** that **integers can be divided**, provided that the divisor is not zero, and every quotient of integers (with non-zero divisor) is a rational number. If p and q are integers then $-(p/q) = (-p)/q = p/(-q)$. **Interpret** quotients of rational numbers by **describing** real-world contexts.

MGSE7.NS.2c **Apply** properties of operations as strategies **to multiply and divide rational numbers.**

MGSE7.NS.3 **Solve** real-world and mathematical problems involving the four operations with **rational numbers.**

Skills (what must be able to do)	Concepts (what students need to know)	DOK Level / Bloom's
Apply Properties	Rational numbers	2
Add/subtract/multiply/divide whole number integers	Irrational numbers	2
Describe Distributive Property	Related properties	2
Add/subtract/multiply/divide rational numbers	Fractions	2
Determine accurate expression/solution from situation	How rational numbers relate to real world contexts.	3

<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>Computation with positive and negative numbers is often necessary to determine relationships between quantities.</p> <p>Models, diagrams, manipulatives and patterns are useful in developing and remembering algorithms for computing with positive and negative numbers.</p> <p>Properties of real numbers hold for all rational numbers.</p> <p>Positive and negative numbers are often used to solve problems in everyday life.</p>	<p>What strategies are most useful in helping develop algorithms for adding, subtracting, multiplying, and dividing positive and negative rational numbers?</p> <p>What are the steps to converting a rational number to a repeating or terminating decimal?</p>
<p>Essential Unit Vocabulary</p>	
<p>Additive Inverse Multiplicative Inverse Absolute Value Integers Long Division Natural Numbers Negative Numbers Opposite Numbers Positive Numbers Rational Numbers Repeating Decimal Terminating Decimal Zero Pair</p>	
<p>Next step, create assessments and engaging learning experiences</p>	