C2.0 Investigations into Mathematics Unit 5 Course Outline

The Real Number System

Topic	Instructional Foci
<i>d</i> agnitude and ic Notation	In this topic, students continue their study of exponents by investigating very large and very small quantities. This requires them to represent, estimate, and calculate numbers expressed in scientific notation. Students apply the properties of integer exponents to transform expressions as they explore equivalency. <u>Concepts</u> Explore the magnitude of numbers.
c 1: N cientif	Express very large and very small numbers in scientific notation. Explore properties of integer exponents through patterns.
Topic Sc	Solidify understanding of properties of integer exponents. Reason about and solve problems using scientific notation.
Topic	Instructional Foci
ional and Numbers	In this topic, students differentiate between rational and irrational numbers by exploring repeating decimal patterns. They evaluate square roots and cube roots of perfect squares and perfect cubes. Students use rational approximations of irrational numbers to estimate the value of irrational numbers, compare their size, and locate them approximately on a number line diagram.
ic 2: Rat ational N	<u>Concepts</u> Know that numbers that are not rational are called irrational. Use geometric representations to explore squares and cubes.
Top Irr	Solve equations involving perfect squares and perfect cubes. Estimate non-perfect roots between two integers.