MATHEMATICS

Number Sense

Grade 7	
1. Students know the properties of and compute with rational numbers expressed in a variety of forme	2. Students use exponents, powers, and roots and use exponents in working with fractions.
variety of forms.	7.2.1 Understand negative whole number
7.1.1 Read, write and compare rational	exponents. Multiply and divide expressions
numbers in scientific notation (positive and	involving exponents with a common base
negative powers of 10), approximate numbers	5
using scientific notation	7.2.2 Add and subtract fractions using
	factoring to find common denominators
7.1.2 Add, subtract, multiply and divide	7.0.0 Multiply divide, and simplify frequience
rational numbers, integers, fractions and decimals and take rational numbers to whole number	7.2.3 Multiply, divide, and simplify fractions using exponent rules
powers	
•	7.2.4 Use the inverse relationship between
7.1.3 Convert fractions to decimals and	raising to a power and root extraction for perfect
percents and use these representations in	square integers; and, for integers which are not
estimation, computation and applications	square, determine without a calculator, the two integers between which its square root lies, and
7.1.4 Differentiate between rational and	explain why
irrational numbers	
	7.2.5 Understand the meaning of the
7.1.5 Know that every fraction (of integers in	absolute value of a number, interpret it as the
the numerator and denominator) is either a	distance of the number from zero on a number
terminating or repeating decimal and be able to convert terminating decimals into reduced	line and determine the absolute value of real numbers
fractions	numbers
7.1.6 Calculate percent of increases and	
decreases of a quantity	
7.4.7 Solve problems that involve discounts	
7.1.7 Solve problems that involve discounts, markups, commissions, profit and simple and	
compound interest	