Essential Math 1



The following learning targets represent the major concepts studied and assessed in this course.

Unit 1 Language of Algebra	U1.1 I can rewrite words, pictures and algebraic expressions or equations in another form. U1.2 I can use diagrams and algebraic notations to solve equations.
	 Use notation to track the transformations of an unknown number Translate among verbal, pictorial, & symbolic notations Think logically about equivalence Work from known information to determine missing or unknown information Communicate mathematical relationships & patterns through verbal, pictorial, & algebraic representations
Unit 2	U2.1 Compare rational numbers.
Geography of the Number Line	U2.2 Solve linear equations using integers. U2.3 Look for and make use of structure through number sense with integers.
	 Order & place positive & negative numbers on the number line
	 Make & use observations about sums & differences on the number line
	Use the number line to determine the distance between two numbers
	 Represent inequalities on the number line Reason abstractly about number placement & operations using variables
	 Translate verbal & symbolic puzzle clues
Unit 3	U3.1. Comparing rational numbers(decimals and fractions).
Micro-Geography of the	U3.2. Look for and make use of structure using numbers sense with fractions and decimals.
Number Line	• Order & place positive & negative numbers (decimals & fractions) on the number line
	• Connect the structure of decimals to that of integers by zooming in on the number line by factors of 10.
	 Connect fractions to integers both through zooming in on the number line & through division
	 Evaluate & estimate sums & differences of decimals & fractions
	• Find distances between numbers with fractions & decimals by using the number line in the same way it was used with integers

• Identify numbers between numbers using decimals & fractions