**Unit 4 - Fractions, Decimals, and Percents**

**Percent Measures (Rates as Percent):** Using an elastic band, students will develop an understanding of percent as a fraction of a whole with 100 as a denominator. They will identify the part and whole in the relationship, and develop an intuitive sense of benchmark percents.

**Percent Pictures (Percent and Proportion):** Using a hundred grid overlay, students will name shaded regions of an area as a fraction and percent to develop a system to determine equivalent names.

**Proportional Practice:** visual models (area grids, geoboard grids, and linear representations) provide a way of “seeing” the proportional meaning of fractions and percent, and is permanently carried in the memory. Algebraic habits of mind are reinforced by doing and undoing, abstracting from number, and by examining proportional structures of fractions and percent.

6.1.1.3 Understand that percent represents parts out of 100 and ratios to 100.

* Representing percents (as parts out of 100 and ratios to 100) and their equivalents (fractions and decimals) in pictures, manipulatives, spoken language, written symbols, and relevant situations

6.1.1.4 Determine equivalences among fractions, decimals and percents; select among these representations to solve problems.

* Determining equivalent fractions, decimals, and percents using pictures, manipulatives, spoken language, written symbols, and relevant situations
* Solving real-world problems using equivalent forms of fractions, decimals, and percents

6.1.1.7 Convert between equivalent representations of positive rational numbers.

* Translating between and within fractions (improper/mixed number), decimals using representations in pictures, manipulatives, spoken language, written symbols, and relevant situations

6.1.1.2 Compare positive rational numbers represented in various forms. Use the symbols  < ,  =  and  >.

* Representing rational numbers in pictures, manipulatives, spoken language, written symbols, and relevant situations to compare and order