|  |  |
| --- | --- |
| **Less emphasis on:** | **More emphasis on:** |
|  | **Standards for Mathematical Practice*** + - Describe mathematical “habits of mind”
		- Standards for mathematical proficiency: reasoning, problem solving, modeling, decision making, and engagement
		- Connect with content standards in each grade
 |
| **Numbers & Operations*** Modeling and comparing rational numbers
* Using ratio and proportion
* Appling GCF and LCM
* Operations with rational numbers
* Evaluating numerical expressions
 | **Numbers & Operations*** Working with radicals and integer exponents
* Operations with and using numbers in scientific notation
* Using rational numbers to approximate irrational numbers
 |
| **Measurement*** Performing conversions within the metric and customary system
 | **Measurement** |
| **Geometry*** Finding area, surface area and volume
 | **Geometry*** Understanding congruence and similarity using rotations, reflections and translations
* Using informal arguments to establish facts about angles
 |
| **Algebraic Concepts*** Finding missing elements in patterns
* Using the concept of equality to demonstrate an understanding of the inverse properties of numbers & the properties of equality
 | **Algebraic Concepts*** Defining, evaluating and comparing functions
* Using & solving linear equations with rational coefficients
* Constructing function models (function notation is not required)
* Comparing two functions represented in different ways
* Interpreting rate as slope
* Using equations of linear models to solve problems
* Analyzing and solving systems of linear equations
 |
| **Data Analysis & Probability*** Using sampling techniques to gather data
* Comparing data sets graphically and numerically
* Stem-and-leaf & box-and-whisker plots
* Effects of extreme values
* Finding probability, combinations and permutations
* Finding missing elements in patterns
 | **Data Analysis & Probability*** Construct and interpret scatter plots for bivariate data
* Informally fit a line to data that has a linear association
* Displaying frequencies and relative frequencies in a two way table and understanding patterns of association
* Analyzing and solving systems of linear equations
 |