

Revised secondary math 2009-2010 TEKS that incorporate College Readiness Standards (changes to the TEKS are shown in **red** font)

**I. Numeric Reasoning**

- **8.1 (E)** Compare and order real numbers with a calculator.
- **2A.6 (C)** Determine a quadratic function from its roots (real and complex) or a graph.

**II. Geometric Reasoning**

- **G.8 (E)** Use area models to connect geometry to probability and statistics.

**III. Measurement Reasoning**

- **7.4 (A)** Generate formulas involving unit conversions within the same system (customary and metric), perimeter, area, circumference, volume, and scaling.
- **8.2 (D)** Use multiplication by a given constant factor (including unit rate) to represent and solve problems involving proportional relationships including conversions between measurement systems.
- **G.8 (F)** Use conversions between measurement systems to solve problems in real-world situations.

**IV. Probabilistic Reasoning**

- **7.10** The student recognizes that a physical or mathematical model (including geometric) can be used to describe the experimental and theoretical probability of real-life events.

**V. Statistical Reasoning**

- **7.12** The student uses measures of central tendency and variability to describe a set of data.
- **8.12 (A)** Use variability (range, including interquartile range (IQR)) and select the appropriate measure of central tendency or range to describe a set of data and justify the choice for a particular situation.
- **M.3** The student develops and implements a plan for collecting and analyzing data (qualitative and quantitative) in order to make decisions.