# Connections for Success

Course content emphasis indicated by: ● Major Cluster: ▲Supporting Cluster

## Geometry

### NUMBER AND QUANTITY - N

**Quantity (N-Q)**

▲ **G.N-Q.A** Reason quantitatively and use units to solve problems.

### GEOMETRY - G

**Congruence (G-CO)**

● **G.G-CO.A** Experiment with transformations in the plane.

● **G.G-CO.B** Understand congruence in terms of rigid motions.

● **G.G-CO.C** Prove geometric theorems.

▲ **G.G-CO.D** Make geometric constructions.

**Similarity, Right Triangles and Trigonometry (G-SRT)**

● **G.G-SRT.A** Understand similarity in terms of similarity transformations.

● **G.G-SRT.B** Prove theorems involving similarity.

● **G.G-SRT.C** Define trigonometric ratios and solve problems involving right triangles.

**Circles (G-C)**

▲ **G.G-C.A** Understand and apply theorems about circles.

▲ **G.G-C.B** Find arc lengths and areas of sectors of circles.

**Expressing Geometric Properties with Equations (G-GPE)**

▲ **G.G-GPE.A** Translate between the geometric description and the equation for a conic section.

● **G.G-GPE.B** Use coordinates to prove geometric theorems algebraically.

**Geometric Measurement and Dimensions  (G-GMD)**

● **G.G-GMD.A** Explain volume formulas and use them to solve problems.

▲ **G.G-GMD.B** Visualize relationships between two-dimensional and three-dimensional objects.

**Modeling with Geometry (G-MG)**

▲ **G.G-MG-A** Apply geometric concepts in modeling situations.