435 ACCELERATED GEOMETRY

**Congruence**

Experiment with transformations in the plane

Understand congruence in terms of rigid motions

Prove geometric theorems

Make geometric constructions

Apply geometric concepts in modeling situations

**Similarity, Right Triangles and Trigonometry**

Understand similarity in terms of similarity transformations

Prove theorems involving similarity

Define trigonometric ratios and solve problems involving right triangles

Apply trigonometry to general triangles

Apply geometric concepts in modeling situations

**Circles**

Understand and apply theorems about circles

Find arc lengths and areas of sectors of circles

Apply geometric concepts in modeling situations

**Expressing Geometric Properties with Equations**

Translate between the geometric description and the equation for a conic section

Use coordinates to prove simple geometric theorems algebraically.

Apply geometric concepts in modeling situations.

**Geometric Measurement and Dimension**

Explain volume formulas and use them to solve problems.

Visualize the relation between two-dimensional and three-dimensional objects

Apply geometric concepts in modeling situations

**Algebra - creating and reasoning with equations and inequalities**

Create equations that describe numbers or relationships

Solve equations and inequalities in one variable

Represent and solve equations and inequalities graphically

Conditional Probability, the Rules of Probability, and using probability to Make Decisions

Understand independence and conditional probability and use them to interpret data

Use the rules of probability to compute probabilities of compound events in a uniform probability model

Calculate expected values and use them to solve problems

Use probability to evaluate outcomes of decisions