High School Geometry

Unit 1

Congruence

- Make Geometric Constructions; Experiment with Transformations in the Plane
  - G-CO 12 & 13
  - G-CO 1-5

- Understand congruence in terms of rigid motions
  - G-CO 6-8

- Prove geometric theorems
  - G-CO 9-11

Key:  
- Major Clusters;  
- Supporting Clusters;  
- Additional Clusters
High School Geometry
Unit 2

Similarity

Understand similarity in terms of similarity transformations

Prove theorems involving similarity

G-SRT 1-3
G-SRT 4-5

Key:  Major Clusters;  Supporting Clusters;  Additional Clusters
High School Geometry
Unit 3

Expressing Geometric Properties with Equations; Circles

Use coordinates to prove simple geometric theorems algebraically
GPE 4-7

Understand and prove theorems about circles; Find arc lengths and areas of sectors of circles.
G-C 1-5

Translate between the geometric description and the equation for a conic section
GPE 1-2

Key: Green = Major Clusters; Blue = Supporting Clusters; Yellow = Additional Clusters
High School Geometry
Unit 4

Similarity, Right Triangles, and Trigonometry
- Define trigonometric ratios and solve problems involving right triangles
- G-SRT 6-8.1

Geometric Measurement and Dimension
- Explain volume formulas and use them to solve problems; Visualize relationships between 2-D and 3-D objects.
- G-GMD 1-6

Conditional Probability and the Rules of Probability
- Understand independence and conditional probability and use them to interpret data
- Use rules of probability to compute probabilities of compound events in a uniform probability model
- Use probability to evaluate outcomes of decisions
- S-CP 1-5, S-CP 6-9, S-MD 6-7

Key: □ Major Clusters; □ Supporting Clusters; □ Additional Clusters