

Major Work of Geometry

High School	
Major Clusters	Supporting/Additional Clusters
<p>Quantities</p> <ul style="list-style-type: none"> Reason quantitatively and use units to solve problems. <p>Congruence</p> <ul style="list-style-type: none"> Prove geometric theorems. <p>Similarity, Right Triangles, and Trigonometry</p> <ul style="list-style-type: none"> Define trigonometric ratios and solve problems involving right triangles. <p>Expressing Geometric Properties with Equations</p> <ul style="list-style-type: none"> Use coordinates to prove simple geometric theorems algebraically. <p>Modeling with Geometry</p> <ul style="list-style-type: none"> Apply geometric concepts in modeling situations. 	<p>Congruence</p> <ul style="list-style-type: none"> Experiment with transformations in the plane. Understand congruence in terms of rigid motions. Make geometric constructions. <p>Similarity, Right Triangles, and Trigonometry</p> <ul style="list-style-type: none"> Understand similarity in terms of similarity transformations. Prove theorems involving similarity. Apply trigonometry to general triangles. <p>Circles</p> <ul style="list-style-type: none"> Understand and apply theorems about circles. Find arc lengths and areas of sectors of circles. <p>Expressing Geometric Properties with Equations</p> <ul style="list-style-type: none"> Translate between the geometric description and the equation for a conic section. (Here because of circles.) <p>Geometric Measurement and Dimension</p> <ul style="list-style-type: none"> Visualize relationships between two-dimensional and three-dimensional objects.

	<p>Conditional Probability and the Rules of Probability</p> <ul style="list-style-type: none">• 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. <p>Using Probability to Make Decisions</p> <ul style="list-style-type: none">• Use probability to evaluate outcomes of decisions.
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