

Geometry

Congruence

A Experiment with transformations in the plane. G.CO.A

- 5 Demonstrate the ability to rotate, reflect or translate a figure, and determine a possible sequence of transformations between two congruent figures. G.CO.A.5
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B Understand congruence in terms of rigid motions. G.CO.B

- 6 Develop the definition of congruence in terms of rigid motions. G.CO.B.6
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C Prove geometric theorems. G.CO.C

- 10 Prove theorems about polygons. G.CO.C.10
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D Make geometric constructions. G.CO.D

- 11 Construct geometric figures using various tools and methods. G.CO.D.11
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Similarity, Right Triangles, and Trigonometry

B Prove theorems involving similarity. G.SRT.B

- 4 Use congruence and similarity criteria for triangles to solve problems and to prove relationships in geometric figures. G.SRT.B.4
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C Define trigonometric ratios, solve problems involving right triangles. G.SRT.C

- 7 Use trigonometric ratios and the Pythagorean Theorem to solve right triangles. G.SRT.C.7
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Expressing Geometric Properties with Equations

B Use coordinates to prove geometric theorems algebraically. G.GPE.B

- 3 Use coordinates to prove geometric theorems algebraically. G.GPE.B.3
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Geometric Measurement and Dimension

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

- 2 Use volume formulas for cylinders, pyramids, cones, spheres and composite figures to solve problems. G.GMD.A.2
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Modeling with Geometry

A Apply geometric concepts in modeling situations. G.MG.A

- 3 Apply geometric methods to solve design mathematical modeling problems. G.MG.A.3
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Conditional Probability and the Rules of Probability

A Understand independence and conditional probability and use them to interpret data. [G.CP.A](#)

2 Understand the definition of independent events and use it to solve problems. [G.CP.A.2](#)

5 Recognize and explain the concepts of conditional probability and independence in a context. [G.CP.A.5](#)