Missouri Mathematics Priority Standards

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

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

C Prove geometric theorems. G.CO.C

10 Prove theorems about polygons. G.CO.C.10

D Make geometric constructions. G.CO.D

11 Construct geometric figures using various tools and methods. G.CO.D.11

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

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

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

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

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

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