Wisconsin Mathematics

Essential Elements: High School: Geometry

Congruence G.CO

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

1 Know the attributes of geometric elements and two-dimensional shapes. M.EE.G.CO.1

- a Know the attributes of points, rays, lines, line segments, perpendicular lines, parallel lines, and angles. M.EE.G.CO.1.A
- b Know the attributes of two-dimensional shapes. M.EE.G.CO.1.B

2 Not applicable.

3 Not applicable.

4 Given a geometric figure and a rotation, reflection, or translation of that figure, identify the components of the two figures that are congruent. M.EE.G.CO.4

5 Given a geometric figure and a rotation, reflection, or translation of that figure, identify the components of the two figures that are congruent. M.EE.G.CO.5

B Understand congruence in terms of rigid motion. M.G.CO.B

6 Identify corresponding congruent and similar parts of shapes. M.EE.G.CO.6

7 Identify corresponding congruent and similar parts of shapes. M.EE.G.CO.7

8 Identify corresponding congruent and similar parts of shapes. M.EE.G.CO.8

C Prove geometric theorems. M.G.CO.C

9 Not applicable.

10 Not applicable.

11 Not applicable.

D Make geometric constructions. M.G.CO.D

12 Not applicable.

13 Not applicable.

Similarity, Right Triangles, and Tri

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A Understand similarity in terms of similarity transformations. M.G.SRT.A

1 Not applicable. See M.EE.G.CO.6.

2 Not applicable. See M.EE.G.CO.6.

3 Not applicable. See M.EE.G.CO.6.

B Prove theorems involving similarity. M.G.SRT.B

4 Not applicable.

5 Not applicable. See M.EE.G.CO.6.

C Define trigonometric ratios and solve problems involving right triangles. (M) M.G.SRT.C

6 Not applicable.

7 Not applicable.

8 Not applicable.

9 Not applicable.

10 Not applicable.

11 Not applicable.

Circles G-C

A Understand and apply theorems about circles. M.G.C.A

1 Not applicable.

B Find arc lengths and areas of sectors of circles. M.G.C.B

2 Not applicable.

Expressing Geometric Properties G-GPE

A Translate between the geometric description and the equation for a conic section. M.G.GPE.A

1 Not applicable.

2 Not applicable.

3 Not applicable.

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

4 Not applicable.

5 Not applicable. See M.EE.G.CO.1.

6 Not applicable. See M.EE.G.CO.1.

7 Find perimeters and areas of squares and rectangles to solve real-world problems. M.EE.G.GPE.7

Geometric Measurement and Dimension G-GMD

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

1 Estimate the volumes of containers, the areas of figures, and the perimeters of figures. Check the estimates using formulas or models. M.EE.G.GMD.1

2 Estimate the volumes of containers, the areas of figures, and the perimeters of figures. Check the estimates using formulas or models., M.EE.G.GMD.2

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B **Visualize relationships between two-dimensional and three-dimensional objects.** M.G.GMD.B

3 Not applicable.

C **Apply geometric concepts in modeling situations. (M)** M.G.GMD.C

4 Use properties of geometric shapes to describe real life objects. M.EE.G.GMD.4

5 Use properties of geometric shapes to describe real life objects. M.EE.G.GMD.5

6 Use properties of geometric shapes to describe real life objects. M.EE.G.GMD.6