

Geometry and Geo Honors Pacing Calendar

Unit 1: Basics of Geometry and Constructions			
Day	Date	Focus Benchmark(s)	Lesson/Topic
4	8/15/22	MA.912.GR.2.2	1.1 Defined and Undefined Terms – Part 1
4	8/15/22	MA.912.GR.2.2	1.2 Defined and Undefined Terms – Part 2
5	8/16/22	MA.912.GR.2.2	1.3 Isometry
6	8/17/22	MA.912.GR.2.2	1.4 Dilations and Partitions
7	8/18/22		Review/Wrap-Up Lessons 1- 4
8	8/19/22	MA.912.GR.2.3	1.5 Transformations on the Plane – Part 1
9	8/22/22	MA.912.GR.2.3	1.6 Transformations on the Plane – Part 2
10	8/23/22	MA.912.GR.2.6, MA.912.GR.2.8	1.7 Congruence and Similarity (SE p. 45 Bring it Together only) And Review/Wrap-Up Lessons 1-7
11	8/24/22	MA.912.GR.5.1	1.8 Line Segments
12	8/25/22	MA.912.GR.5.1	1.9 Copying an Angle
13	8/26/22	MA.912.GR.5.2	Equations Review 1.10 Segment Bisectors (SE p. 66-68 Guided Instruction)
14	8/29/22	MA.912.GR.5.2	1.11 Perpendicular Bisectors (SE p. 73 Guided Practice)
15	8/30/22	MA.912.GR.5.2	1.12 Angle Bisectors (SE p. 77-78 Guided Instruction)
16	8/31/22		Progress Monitoring
17	9/1/22		Review Unit 1
18	9/2/22		Unit 1 Assessment

Unit 2: Proofs and Logic

Day	Date	Focus Benchmark(s)	Lesson/Topic
19	9/6/22	MA.912.GR.1.1, MA.912.LT.4.10	2.1 Introduction to Euclidean Geometry
19	9/6/22	MA.912.LT.4.10	2.2 Types of Reasoning
19	9/6/22	MA.912.LT.4.10	2.3 Logical Conclusions (may skip)
20	9/7/22	MA.912.LT.4.3	2.4 Hypothesis and Conclusion
21	9/8/22	MA.912.LT.4.3	2.5 Conditionals and Biconditionals
21	9/8/22	MA.912.LT.4.3	2.6 "All" and "Not" Statements
23	9/9/22		Review/Wrap Up Lessons 1-6
24	9/12/22	MA.912.GR.1.1, MA.912.LT.4.10	2.7 Proofs – Part 1
25	9/13/22	MA.912.GR.1.1, MA.912.LT.4.10	2.8 Proofs – Part 2
26	9/14/22		Review Proofs – this is a half day
27	9/15/22		Review Unit 2
28	9/16/22		Unit 2 Assessment

Unit 3: Lines and Angles

Day	Date	Focus Benchmark(s)	Lesson/Topic
29	9/19/22	MA.912.GR.1.1, MA.912.LT.4.10	3.1 Proving Angle Relations
30	9/20/22	MA.912.GR.1.1	3.2 Vertical and Corresponding Angles
31	9/21/22	MA.912.GR.1.1	3.3 Congruent Angles in Parallel Lines ***teach Lesson 3.5 here
32	9/22/22		Review Lessons 1-3
33	9/23/22	MA.912.GR.1.1	3.4 Consecutive Angles ***teach Lesson 3.5 here
	9/21 and 9/22	MA.912.GR.1.1, MA.912.LT.4.3	3.5 Converse of the Alternate Interior Angles Theorem
34	9/26/22	MA.912.GR.1.1	3.6 Using Angle Relationships, Postulates, and Theorems
34	9/26/22	MA.912.GR.1.1	3.7 Solving Problems Using Angle Pair Relationships (SE p. 159, 162-163)
35	9/27/22		Review Lessons 3.6 and 3.7
36	9/28/22	MA.912.GR.1.1, MA.912.LT.4.10	3.8 Angle Relationship Proofs – Part 1
36	9/28/22	MA.912.GR.1.1, MA.912.LT.4.10	3.9 Angle Relationship Proofs – Part 2

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37	9/29/22		Review Unit 3
38	9/30/22		Unit 3 Assessment
39	10/3/22		Review Units 1-3
40	10/4/22		Cumulative Test

Unit 4: Rigid Motions and Congruence

Day	Date	Focus Benchmark(s)	Lesson/Topic
41	10/5/22	MA.912.GR.2.1	4.1 Algebraic Descriptions for Translations and Rotations
42	10/6/22	MA.912.GR.2.1	4.2 Algebraic Descriptions for Reflections
43	10/7/22	MA.912.GR.2.2, MA.912.GR.2.3	4.3 Sequences of Transformations
44	10/10/22	MA.912.GR.2.1, MA.912.GR.2.5	4.4 Written Descriptions of a Sequence of Transformations
45	10/11/22	MA.912.GR.2.1, MA.912.GR.2.5	4.5 Algebraic Descriptions of a Sequence of Transformations
46	10/12/22		Review Lessons 1-5
47	10/13/22	MA.912.GR.2.3, MA.912.GR.2.6	4.6 Isometry
48	10/14/22	MA.912.GR.2.3, MA.912.GR.2.6	4.7 Justifying Congruence
49	10/18/22	MA.912.GR.2.3, MA.912.GR.2.6	4.8 Putting it All Together (treat this as a Review Day)
50	10/19/22		Review Unit 4
51	10/20/22		Unit 4 Assessment

Unit 5: Triangle Congruence

Day	Date	Focus Benchmark(s)	Lesson/Topic
52	10/21/22	MA.912.GR.1.2, MA.912.GR.2.1, MA.912.GR.5.1,	5.1 Exploring Side-Side-Side Triangle Congruence
53	10/24/22	MA.912.GR.1.2, MA.912.GR.5.1	5.2 Exploring Side-Angle-Side and Angle-Side-Angle Triangle Congruence
54	10/25/22	MA.912.GR.1.2, MA.912.GR.5.1	5.3 Exploring Angle-Angle-Side and Hypotenuse-Leg Triangle Congruence
55	10/26/22	MA.912.GR.1.6, MA.912.GR.2.3, MA.912.GR.2.6	5.4 Exploring Corresponding Parts of Congruent Triangles are Congruent
56	10/27/22	MA.912.GR.1.2, MA.912.LT.4.10	5.5 Drawing Conclusions from Given Information and Review Lessons 1-4
57	10/28/22	MA.912.GR.1.2, MA.912.LT.4.10	5.6 Proving Triangles Congruent
58	10/31/22	MA.912.GR.1.2, MA.912.GR.1.6, MA.912.LT.4.10	5.7 Corresponding Parts of Congruent Triangles are Congruent
59	11/1/22	MA.912.GR.1.2, MA.912.GR.1.6, MA.912.LT.4.10	5.8 The Proof is in the Bag!
60	11/2/22	MA.912.GR.1.6	5.9 Congruence in Two-Dimensional Figures – Part 1
60	11/2/22	MA.912.GR.1.6	5.10 Congruence in Two-Dimensional Figures – Part 2
61	11/3/22		Review Unit 5

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62	11/4/22		Unit 5 Assessment
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Unit 6: Dilations and Similarity

Day	Date	Focus Benchmark(s)	Lesson/Topic
63	11/7/22	MA.912.GR.2.1	6.1 Dilations
63	11/7/22	MA.912.GR.2.1, MA.912.GR.2.3	6.2 Sequences of Transformations that Include Dilations
64	11/8/22	MA.912.GR.2.2 , MA.912.GR.2.3, MA.912.GR.2.5	6.3 Preserving Distance
64	11/8/22	MA.912.GR.2.2, MA.912.GR.2.3	6.4 Sequence of Transformations
65	11/9/22	MA.912.GR.2.5	6.5 Drawing Transformations
66	11/10/22	MA.912.GR.2.8, MA.912.GR.2.3	6.6 Similarity in Transformations
67	11/14/22		Review Lessons 1-6
68	11/15/22		Unit 6 Assessment – Part 1
69	11/16/22	MA.912.GR.1.2	6.7 Triangle Similarity
70	11/17/22	MA.912.GR.1.2	6.8 Proving Triangle Similarity – Part 1
71	11/18/22	MA.912.GR.1.2	6.9 Proving Triangle Similarity – Part 2
THANKSGIVING BREAK (1 WEEK)			
72	11/28/22	MA.912.GR.1.6	6.10 Similar Figures
73	11/29/22	MA.912.GR.1.6	6.11 Solving Problems Using Similarity – Part 1
74	11/30/22	MA.912.GR.1.6	6.12 Solving Problems Using Similarity – Part 2
75	12/1/22	MA.912.GR.1.6	6.13 Similarity in the Real World (Gallery Walk) And Review Unit 6
76	12/2/22		Unit 6 Assessment – Part 2
Unit 7: Trigonometric Ratios			
Day	Date	Focus Benchmark(s)	Lesson/Topic
77	12/5/22	MA.912.T.1.1, MA.912.T.1.2	7.1 The Pythagorean Theorem
78	12/6/22	MA.912.T.1.1, MA.912.T.1.2	7.2 Defining Sine and Cosine
78	12/6/22	MA.912.T.1.1, MA.912.T.1.2	7.3 Defining Tangent
79	12/7/22	MA.912.T.1.1, MA.912.T.1.2	7.4 Trigonometric Ratios on the Coordinate Plane
80	12/8/22	MA.912.T.1.2	7.5 Using Trigonometric Ratios
81	12/9/22		Review Lessons 1-5

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82	12/12/22	MA.912.T.1.2	7.6 Special Right Triangles
83	12/13/22	MA.912.T.1.1, MA.912.T.1.2	7.7 The Unit Circle and its Coordinates Review Special Right Triangles
84	12/14/22	MA.912.T.1.2	7.8 Using Trigonometric Ratios and the Pythagorean Theorem
85	12/15/22	MA.912.T.1.2	7.9 Using Trigonometry in the Real World
86	12/16/22		Review Unit 7
87-90	12/19-12/23		MID TERM and/or Unit 7 Assessment

Unit 8: Proving Relationships and Theorems

Day	Date	Focus Benchmark(s)	Lesson/Topic
91	1/10/23		Review Day
92	1/11/23	MA.912.GR.1.4, MA.912.LT.4.10	8.1 Proving Properties of Parallelograms
93	1/12/23	MA.912.GR.1.4, MA.912.LT.4.10	8.2 Using Properties of Parallelograms
94	1/13/23	MA.912.GR.1.4, MA.912.LT.4.10	8.3 Special Parallelograms
95	1/17/23	MA.912.GR.1.4	8.4 Kites and Parallelograms
96	1/18/23		Progress Monitoring
97	1/19/23	MA.912.GR.1.5, MA.912.LT.4.10	8.5 Trapezoids
97	1/19/23	MA.912.GR.1.4, MA.912.GR.1.5	8.6 Solving Real-World Problems with Quadrilaterals (Gallery Walk)
98	1/20/23	MA.912.GR.1.5	8.7 Trapezoid Midsegment Theorem
99	1/23/23		Review Unit 8
100	1/24/23		Unit 8 Assessment

Unit 9: Two- and Three-Dimensional Shapes

Day	Date	Focus Benchmark(s)	Lesson/Topic
101	1/25/23	MA.912.GR.4.4	9.1 Finding the Area of Two-Dimensional Figures
102	1/26/23	MA.912.GR.4.4	9.2 Density Based on Area
103	1/27/23	MA.912.GR.4.1	9.3 Cross Sections
103	1/27/23	MA.912.GR.4.2	9.4 Solids of Rotation
104	1/30/23	MA.912.GR.4.5	9.5 Cavalieri's Principle
105	1/31/23	MA.912.GR.4.5	9.6 Finding Volume
105	1/31/23	MA.912.GR.4.5	9.7 Volume in the Real World

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106	2/1/23		Review Lessons 1-7
107	2/2/23	MA.912.GR.4.6	9.8 Surface Area of Three-Dimensional Figures
108	2/3/23	MA.912.GR.4.6	9.9 Surface Area in the Real World
109	2/6/23	MA.912.GR.4.3	9.10 Determining How Dilations Affect Area
110	2/7/23	MA.912.GR.4.3	9.11 Determining Surface Area Given Dimension Changes
111	2/8/23		Review Unit 9
112	2/9/23		Review Unit 9
113	2/10/23		Unit 9 Assessment

Unit 10: Arcs and Angle Relationships in Circles

Day	Date	Focus Benchmark(s)	Lesson/Topic
114	2/13/23	MA.912.GR.6.4	10.1 Sectors
115	2/14/23	MA.912.GR.6.4	10.2 Arc Length
116	2/15/23	MA.912.GR.6.4	10.3 Radian Measure
117	2/16/23	MA.912.GR.6.4	10.4 Solving Problems Involving Arc Length and Area of a Sector
118	2/17/23	MA.912.GR.6.2	10.5 Solving Problems Involving Arc Measure and Central Angles
119	2/21/23		Review Lessons 1-5
120	2/22/23	MA.912.GR.6.2	10.6 Solving Problems Involving Inscribed Angles
121	2/23/23	MA.912.GR.6.2	10.7 Solving Problems Involving Intersecting Chords
122	2/24/23	MA.912.GR.6.2	10.8 Solving Problems Involving Intersection of Secants
123	2/27/23	MA.912.GR.6.2	10.9 Solving Problems Involving Tangents
124	2/28/23		Review Unit 10
125	3/1/23		More Review Unit 10
126	3/2/23		Unit 10 Assessment

Unit 11: Justifying Relationships in Polygons with Circles

Day	Date	Focus Benchmark(s)	Lesson/Topic
127	3/3/23	MA.912.GR.5.3	11.1 Constructing a Circumscribed Circle of a Triangle
128	3/6/23	MA.912.GR.5.3	11.2 Constructing the Incenter of a Triangle
129	3/7/23	MA.912.GR.6.3	11.3 Solving Problems Involving Triangles Inscribed in Circles

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130	3/8/23	MA.912.GR.6.3	11.4 Solving Problems Involving Quadrilaterals Inscribed in Circles
131	3/9/23	MA.912.GR.1.3	11.5 Interior and Exterior Angles of Triangles
132	3/10/23	MA.912.GR.1.3, MA.912.LT.4.10	11.6 Triangle Inequality Theorem
133	3/13/23	MA.912.GR.1.3, MA.912.GR.5.2	11.7 Centroid of a Triangle
134	3/14/23	MA.912.GR.1.3, MA.912.LT.4.10	11.8 Triangle Midsegment Theorem
135	3/15/23	MA.912.GR.1.3	11.9 Solving Problems Using Triangle Relationships
136	3/16/23		Review Unit 11
			Unit 11 Assessment (will skip the assessment due to time constraints and Spring Break)

Unit 12: Segment Relationships in Circles

Day	Date	Focus Benchmark(s)	Lesson/Topic
137	3/27/23	MA.912.GR.6.1	12.1 Solving Problems with Lengths of Intersecting Chords
138	3/28/23	MA.912.GR.6.1	12.2 Solving Problems with Lengths of Two Secants
138	3/28/23	MA.912.GR.6.1	12.3 Solving Problems with Secant and Tangent Segments
138	3/28/23	MA.912.GR.6.1	12.4 Solving Problems with Lengths of Two Tangents
139	3/29/23	MA.912.GR.6.1	12.5 Pythagorean Theorem and Tangent Lines
140	3/30/23	MA.912.GR.6.1	12.6 Lengths of Secants, Tangents, Segments, and Chords in Circles And Review Lessons 1-6
141	3/31/23	MA.912.GR.7.2	12.7 Deriving the Equation of a Circle
141	3/31/23	MA.912.GR.7.2, MA.912.GR.7.3	12.8 Standard Form of a Circle
142	4/3/23	MA.912.GR.7.3	12.9 Graphing Circles
143	4/4/23		Review Unit 12
144	4/5/23		Unit 12 Assessment

Unit 13: Shapes on a Coordinate Plane

Day	Date	Focus Benchmark(s)	Lesson/Topic
145	4/6/23	MA.912.GR.3.2	13.1 Parallel and Perpendicular Lines
146	4/7/23	MA.912.GR.3.2, MA.912.GR.3.3, MA.912.GR.3.4	13.2 Circles on the Coordinate Plane
147	4/10/23	MA.912.GR.3.2, MA.912.GR.3.3, MA.912.GR.7.2	13.3 Determining Points on a Circle
148	4/11/23	MA.912.GR.3.3	13.4 Partitioning Line Segments
149	4/12/23	MA.912.GR.3.1	13.5 Weighted Averages
150	4/13/23	MA.912.GR.3.2	13.6 Classifying Triangles
150	4/13/23	MA.912.GR.3.3	13.7 Centroids of Triangles
151	4/14/23	MA.912.GR.3.2	13.8 Classifying Quadrilaterals – Part 1
152	4/17/23	MA.912.GR.3.2, MA.912.GR.3.3,	13.9 Classifying Quadrilaterals – Part 2
152	4/17/23	MA.912.GR.3.2,	13.10 Classifying Quadrilaterals – Part 3 (Stations)
153	4/18/23	MA.912.GR.3.2, MA.912.GR.3.3,	13.11 What is the Figure?
154	4/19/23		Progress Monitoring

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153	4/20/23	MA.912.GR.3.3	13.12 Congruence and Similarity
153	4/20/23	MA.912.GR.3.4	13.13 Finding Perimeter and Area on the Coordinate Plane
154	4/21/23	MA.912.GR.3.3, MA.912.GR.3.4, MA.912.GR.3.2	13.14 Using Coordinate Geometry to Solve Real-World Problems
			Review Unit 13
			Unit 13 Assessment (complete after EOC)

155-164	4/24-5/5		EOC Review
165-169	5/8-5/12		EOC and Unit 11 & 13 Assessment
170-180	5/15-5/25		Enrichment Projects