Geometry Honors Pacing Guide
Updated August 2024

Marking Period 1

Unit 1: Basics of Geometry

- 1.1 Points, Lines, and Planes
- 1.2 Measuring and constructing segments
- 1.3 Using midpoint and distance formula
- 1.4 Perimeter and Area in the Coordinate Plane
- 1.5 Measuring and constructing angles
- 1.6 Describing pairs of angles

Unit 2: Reasoning and proofs

- 2.3 postulates and diagrams
- 2.4 Algebraic Reasoning
- 2.5 Proving statements about segments and angles
- 2.6 Proving geometric relationships

Unit 3: Parallel and Perpendicular Lines

- 3.1 Pairs of lines and angles
- 3.2 Parallel lines and transversals
- 3.3 Proofs with parallel lines
- 3.4 Proofs with Perpendicular Lines
- 3.5 equations of parallel and perpendicular lines

Unit 5: Congruent Triangles

- 5.1 Angles of triangles
- 5.2 Congruent Polygons
- 5.3 Proving Triangle congruence by SAS
- 5.4 Equilateral and Isosceles Triangles
- 5.5 Proving Triangle congruence by SSS
- 5.6 Proving Triangle congruence by ASA and AAS
- 5.7 Using Congruent Triangles

Marking Period 2

Unit 6: Relationships within triangles

- 6.1 Perpendicular and Angles Bisector
- 6.2 Bisectors of Triangles
- 6.3 Medians and Altitudes of Triangles
- 6.4 The Triangle Midsegment Theorem
- 6.5 Indirect Proof and Inequalities in one triangle

Unit 8: Similarity

- 8.1 Similar Polygons
- 8.2 Proving Triangles Similarity by AA
- 8.3 Proving Triangle Similarity by SSS and SAS
- 8.4 Proportionality Theorems

Unit 9: Right Triangle and Trigonometry

- 9.1 The Pythagorean Theorem
- 9.2 Special Right Triangles

9.3 Similar Right Triangle
9.4 The Tangent Ratio
9.5 The Sine and Cosine Ratios
9.6 Solving Right Triangles
9.7 Law of Sines and Law of cosines

Marking Period 3

Unit 4: Transformations

4.1 Translations
4.2 Reflections
4.3 Rotations
4.4 Congruence and Transformations
4.5 Dilations
4.6 Similarity and Transformations
* Rotations and Dilations not about the origin

Unit 10: Circles

10.1 Lines and Segments that intersect circles
10.2 Finding Arc Measures
10.3 Using chords
10.4 Inscribed Angles and Polygons
10.5 Angle Relationships in Circles
10.6 Segment Relationships in Circles
10.7 Circles in the coordinate plane
*Complete the Square

Unit 7: Quadrilaterals and Other Polygons

7.1 Angles of Polygons
7.2 Properties of Parallelogram
7.3 Proving that a Quadrilateral is a Parallelogram
7.4 Properties of Special Parallelograms
7.5 Properties of Trapezoids and Kites

Marking Period 4

Unit 11: Circumference and Area

11.1 Circumference and Arc Length
11.2 Areas and Circles and Sectors
11.3 Areas of Polygons
11.4 Modeling with Area

Unit 12: Surface Area and Volume

12.1 Cross Sections of Solids
12.2 Volumes of Prisms and Cylinders
12.3 Volumes of Pyramids
12.4 Surface Areas and Volumes of cones
12.5 Surface Areas and Volumes of Spheres
12.6 Modeling with Surfaces Area and Volume

Unit 13: Probability

13.1 Sample Spaces and Probability
13.2 Two-Way Tables and Probability
13.3 Conditional Probability