

Geometry Honors

Course Code: 120632001

Year-At-A-Glance

MIAMI-DADE COUNTY PUBLIC SCHOOLS
District Pacing Guide

Geometry Honors

2023-2024

Course Code: 120632001

| | | | |
|--|--|--|---|
| <p>I. Basics of Geometry</p> <p>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</p> <p>II. Reasoning and Proofs</p> <p>2.1 Conditional Statements 2.2 Inductive and Deductive Reasoning 2.3 Postulates and Diagrams 2.4 Algebraic Reasoning 2.5 Proving Statements about Segments and Angles 2.6 Proving Geometric Relationships</p> <p>III. Parallel and Perpendicular Lines</p> <p>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</p> <p>IV. Transformations</p> <p>4.1 Translations 4.2 Reflections 4.3 Rotations 4.4 Congruence and Transformations 4.5 Dilations 4.6 Similarity and Transformations</p> | <p>V. Congruent Triangles</p> <p>5.1 Angles of Triangles 5.2 Congruent Polygons 5.3 Proving Triangles Congruence by SAS 5.4 Equilateral and Isosceles Triangles 5.5 Proving Triangles Congruence by SSS 5.6 Proving Triangles Congruence by ASA and AAS 5.7 Using Congruent Triangles 5.8 Coordinate Proofs</p> <p>VI. Relationships Within Triangles</p> <p>6.1 Perpendicular and Angle Bisectors 6.2 Bisectors of Triangles 6.3 Median and Altitudes of Triangles 6.4 The Triangle Midsegment Theorem 6.5 Proof by Contradiction and Inequalities in One Triangle</p> <p>VII. Quadrilaterals and Other Polygons</p> <p>7.2 Properties of Parallelograms 7.3 Proving that a Quadrilateral is a Parallelogram 7.4 Properties of Special Parallelograms 7.5 Properties of Trapezoids</p> | <p>VIII. Similarity</p> <p>8.1 Similar Polygons 8.2 Proving Triangles Similarity by AA 8.3 Proving Triangles Similarity by SSS and SAS 8.4 Proportionality Theorems</p> <p>IX. Right Triangles and Trigonometry</p> <p>9.1 The Pythagorean Theorem 9.2 Special Right Triangles 9.4 The Tangent Ratio The Sine and Cosine Ratios Law of Sines and Cosines</p> <p>9.5 H Circles 9.6 Lines and Segments That Intersect Circles Finding Arc Measures</p> <p>X. Using Chords 10.1 Inscribed Angles and Polygons 10.2 Angle Relationships in Circles 10.3 Segments Relationships in Circles 10.4 Circles in the Coordinate Plane 10.5 10.6 10.7 Circumference and Area Circumference and Arc Length</p> <p>XI. Areas of Circles and Sectors 11.1 Areas of Polygons 11.2 Modeling with Area 11.3 11.4 Surface Area and Volume – Part A Cross Sections of Solids Surface Areas of Prisms and Cylinders</p> <p>XII. 12.1 Surface Areas of Pyramids and Cones 12.2 Volume of Prisms and Cylinders 12.3 Volume of Pyramids and Cones 12.4 Surface Areas and Volumes of Spheres 12.5 Modeling with Surface Area and Volume 12.6 Solids of Revolutions 12.7 12.8</p> | <p>XIII. Geometry EOC</p> <p>XIV. Getting Ready for Algebra 2</p> <ul style="list-style-type: none"> • Functions and Transformations • Quadratic Functions • Solving Quadratic Equations |
|--|--|--|---|