Geometry 2017 – 2018

Please Note:

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Publisher Resource:

HMH (Holt McDougal) (use student Active Directory)

Other Course Supplemental Resources:

Math Nation (use student Active Directory)

Geometry - Khan Academy

IXL Math – High School Standards

FSA Practice: (Please Note: these links work best in Firefox or Chrome)

Geometry FSA EOC Mathematics Computer-Based PRACTICE TEST
Geometry FSA EOC Computer-Based Practice Test Answer Key

Mathematics Practice Tests – PARCC (Partnership for Assessment of Readiness for College and Careers)
Mathematics Answer Keys – PARCC

Additional Practice of Course Standards

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	Week	Major Concepts / Topics	Possible Resources
Quarter 1 Aug 10 – Oct 13	1 8/10 - 8/11	• Solving Linear Equations	Linear Equations
	2 8/14 – 8/18	• Lesson 2.5 Algebraic Proof • Lesson 5.7 Pythagorean Theorem • Lesson 1.6 Distance Formula/Midpoint Formula • Partitioning a Segment • Assessment	2.5 Algebraic Proofs 5.7 Special Right Triangles 1.6 Midpoint formula 1.6 Distance Formula
	3 8/21 – 8/25	**Chapter 1 Foundations for Geometry** • Lesson 1.1 Understanding points, lines and planes • Lesson 1.2 Measuring and constructing segments • Lesson 1.3 Measuring and constructing angles • Lesson 1.4 Pairs of angles	1.1 Points Lines and Planes 1.2 Measuring line segments 1.2 Constructing line segments 1.3 Measuring an angle 1.3 Constructing an angle 1.3 Bisecting an angle 1.4 Pairs of angles 1.4 Complementary/Supplementary angles
	4 8/28 – 9/1	• Lesson 2.6 and 2.7 Geometric proofs • Assessment **Chapter 3 Parallel and Perpendicular Lines** • Lesson 3.5 Slopes of lines	2.6 Geometric Proofs 3.5 Slope and Lines
	5 9/5 – 9/8	**Chapter 3 Parallel and Perpendicular Lines** • Lesson 3.4 Perpendicular Lines • Lesson 3.6 Lines in the coordinate plane • Assessment	 3.4 Perpendicular Lines 3.6 Lines in the Coordinate Plane
	6 9/11 – 9/15	**Chapter 3 Parallel and Perpendicular Lines** • Lesson 3.1 Lines and angles • Lesson 3.2 angles formed by transversals	 3.2 Angles formed by transversals
	7 9/18 – 9/22	• Lesson 3.3 proving parallel lines • Construct Parallel and Perpendicular Lines • Assessment	3.3 Proving Lines are parallel
	8 9/25 – 9/29	**Chapter 4 Triangle Congruence** • Lesson 4.2 Classifying triangles • Lesson 4.3 Angle relationships	 4.2 Classify Triangles 4.2 Angle Relationship

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		• Lesson 4.9 Isosceles and equilateral triangles • Assessment	4.9 Isosceles and equilateral triangles
	9 10/2 – 10/6	**Chapter 4 Triangle Congruence** • Lesson 4.1 Congruence in transformations • Lesson 4.4 Congruent Triangles • Lesson 4.5 Congruent Triangles: SSS, SAS, ASA, AAS, HL • Lesson 4.6 Congruent Triangles: SSS, SAS, ASA, AAS, HL	4.1 Congruency in transformations 4.5 Congruent Triangles 4.6 Congruent Triangle Practice
	10 10/9 – 10/13	**Chapter 4 Triangle Congruence** • Lesson 4.7 Triangle Congruence CPCTC • Lesson 4.8 Coordinate Proofs • Assessment	4.7 Triangle Congruency Proofs

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Quarter 2 Oct 17 – Dec 21	1 10/17 – 10/20	**Chapter 5 Properties of Attributes of Triangles** • Lesson 5.3 Medians and altitudes • Lesson 5.1 Perpendicular and angle bisectors • Lesson 5.2 Bisectors of triangles • Lesson 5.4 Triangle mid segment theorem • Lesson 5.5 Inequalities in one triangle	5.3 Medians and altitudes 5.1 Angle Bisectors 5.2 Bisectors of Triangles 5.4 Triangle Mid segment Theorem 5.5 Indirect Proof and Inequalities
	2 10/23 – 10/27	• Lesson 5.6 Inequalities in two triangles • Review • Assessment **Chapter 6 Polygons and Quadrilaterals** • Lesson 6.1 Properties of regular polygons • Lesson 6.2 Properties of parallelograms	5.6 Inequalities in Two Triangles 6.1 Properties of regular polygons 6.2 Properties of parallelograms
	3 10/30 – 11/3	**Chapter 6 Polygons and Quadrilaterals** • Lesson 6.3 Conditions of parallelograms • Lesson 6.4 Properties of special parallelograms • Lesson 6.5 Conditions for special parallelograms • Lesson 6.6 Properties of kites and trapezoids	6.3 Conditions of parallelograms 6.4 Conditions of parallelograms 6.5 Conditions of Special Parallelograms Rhombus 6.6 Properties of Kites and Trapezoids
	4 11/6 – 11/9	• Review • Assessment **Chapter 9 Extending Transformational Geometry** • Lesson 1.7 Transformations in the coordinate plane • Lesson 9.1 Reflections	 1.7 Transformations 9.1 Reflections
	5 11/13 – 11/17	**Chapter 9 Extending Transformational Geometry** • Lesson 9.2 Translations • Lesson 9.3 Rotations • Lesson 9.4 Compositions of transformations • Lesson 9.5 Symmetry	9.2 Translations 9.3 Rotations 9.4 Composition of transformations 9.5 Symmetry
	6 11/20 – 11/21	• Review • Assessment	
	7 11/27 – 12/1	**Chapter 7 Similarity** • Lesson 7.1 Ratios in similar polygons • Lesson 7.3 Triangle similarity: AA, SSS, SAS • Lesson 7.4 Applying properties of similar triangles	7.1 Rations in Similar polygons 7.3 Similarity Triangle Practice 7.4 Triangle Congruency Proofs

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	8 12/4 – 12/8	• Lesson 7.5 Using Proportional Relationships • Lesson 7.2 Similarity in transformations • Lesson 7.6 Dilations and similarity in the coordinate plane **Chapter 9 Extending Transformational Geometry** • Lesson 9.7 Congruence transformations • Assessment	7.2 Similarity in Transformations 7.6 Dilations and similarity in the coordinate plane
	9 12/11 – 12/15	• Review for Midterms	
	10 12/18 – 12/21	• Midterms	

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Quarter 3 Jan 8 – Mar 15	1 1/8 – 1/12	**Chapter 8 Right Triangles and Trigonometry** • Lesson 8.1 Similarity in right triangles • Lesson 8.2 Trigonometric ratios • Lesson 8.3 Solving right triangles (inverse trig) • Sin/Cos Relationship of acute angles of a triangle: sin x=cos (90-x)	8.1 Similarity in right triangles 8.2 Trigonometric Ratios 8.3 Solving Right Triangles
	2 1/16 – 1/19	**Chapter 8 Right Triangles and Trigonometry** • Lesson 8.4 Angles of elevation and depression • Review • Assessment	8.4 Angles of elevation and depression
	3 1/22 – 1/26	**Chapter 10 Extending Perimeter, Circumference, and Area** • Lesson 10.1 Developing formulas for triangles and quadrilaterals • Lesson 10.2 Developing formulas for circles • Lesson 10.4 Perimeter and area in the coordinate plane/Composite Figures	10.1 Developing formulas for triangles and quadrilaterals 10.2 Developing Formulas for Circles 10.4 Area of shapes on coordinate plane
	4 1/30 – 2/2	**Chapter 10 Extending Perimeter, Circumference, and Area** • Lesson 10.5 Effects of changing dimensions proportionally • Population Density • Assessment	10.5 effects of changing dimensions
	5 2/5 – 2/9	**Chapter 11 Spatial Reasoning** • Lesson 11.1 Solid geometry • Surface Area of Prisms and Cylinders • Surface Area of Pyramids and Cones • Lesson 11.4 Surface Area of Spheres • Assessment	11.1 Solid Geometry Surface Area
	6 2/12 – 2/16	**Chapter 11 Spatial Reasoning** • Lesson 11.2 Volumes of prisms and cylinders • Lesson 11.3 Volumes of Pyramids and Cones • Lesson 11.4 Volume of spheres	11.2 Volume of Cylinder 11.3 Volume of Cone 11.4 Volume of Sphere Volume Formulas Review
	7 2/20 – 2/23	• Similarity of Solids • Review • Assessment	
	8 2/26 – 3/2	**Chapter 12 Circles** • Lesson 12.7 Circles in the coordinate plane	

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		• Lesson 12.1 Lines that intersect circles	12.7 Graphing circles on the coordinate plane 12.1 Tangent Lines
	9 3/5 – 3/9	**Chapter 12 Circles** • 12.2 Arcs and Chords • 12.3 Sector area • 12.4 Inscribed angles • 12.5 Angle relationships and circles	12.2 Arcs and Chords 12.3 Sector Area Radians & Degrees Conversion 12.3 Arc Length 12.4 Inscribed angles
	10 3/12 – 3/15	**Chapter 12 Circles** • Lesson 12.6 Segment relationships in circles • Assessment	12.6 Secant tangent product theorem

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Quarter 4 Mar 19 – May 24	1 3/19 – 3/23	• Constructions of Incenter and Circumcenter • Review of Constructions • Assessment	Circumcenter Construction Incenter Construction
	2 3/26 – 3/30	• **SPRING BREAK – NO SCHOOL**	
	3 4/2 – 4/6	• Course Review	
	4 4/9 – 4/13	• Course Review	
	5 4/16 – 4/20	• Standards Based Performance Tasks	
	6 4/23 – 4/27	• Standards Based Performance Tasks	
	7 4/30 – 5/4	• Standards Based Performance Tasks and Algebra Standards Review	
	8 5/7 – 5/11	• Standards Based Performance Tasks and Algebra Standards Review	
	9 5/14 – 5/18	• Standards Based Performance Tasks and Algebra Standards Review	
	10 5/21 – 5/24	• Standards Based Performance Tasks and Algebra Standards Review	

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