



Geometry

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CHAPTER/LESSON TITLES	COURSE-LEVEL EXPECTATIONS
Unit 1 Geometric Structure	
Chapter 1 Tools of Geometry	
1-1 Points, Lines, and Planes	Geometry and Spatial Relationships 1.A, 4.B
1-2 Linear Measure and Precision	Measurement 1.A, 2.A, 2.D
1-3 Distance and Midpoints	Geometry and Spatial Relationships 4.B Measurement 1.B
1-4 Angle Measure	Measurement 2.A, 2.B
1-5 Angle Relationships	Geometry and Spatial Relationships 1.A, 1.B Measurement 2.B
1-6 Two-Dimensional Figures	Geometry and Spatial Relationships 1.C

CHAPTER/LESSON TITLES	COURSE-LEVEL EXPECTATIONS
1-7 Three-Dimensional Figures	Measurement 2.C
Chapter 2 Reasoning and Proof	
2-1 Inductive Reasoning and Conjecture	Algebraic Relationships\ 1.B, 1.C Geometry and Spatial Relationships 1.A
2-2 Logic	Geometry and Spatial Relationships 1.A
2-3 Conditional Statements	Geometry and Spatial Relationships 1.A
2-4 Deductive Reasoning	Geometry and Spatial Relationships 1.A
2-5 Postulates and Paragraph Proofs	Geometry and Spatial Relationships 1.A
2-6 Algebraic Proof	Geometry and Spatial Relationships 1.A
2-7 Proving Segment Relationships	Geometry and Spatial Relationships 1.A, 1.B
2-8 Proving Angle Relationships	Geometry and Spatial Relationships 1.A, 1.B
Chapter 3 Parallel and Perpendicular Lines	
3-1 Parallel Lines and Transversals	Measurement 2.B
3-2 Angles and Parallel Lines	Measurement 2.B
3-3 Slopes of Lines	Algebraic Relationships 4.A
3-4 Equations of Lines	Algebraic Relationships 2.A, 2.B
3-5 Proving Lines Parallel	Geometry and Spatial Relationships 1.A
3-6 Perpendiculars and Distance	Measurement 2.A

CHAPTER/LESSON TITLES	COURSE-LEVEL EXPECTATIONS
Unit 2 Congruence	
Chapter 4 Congruent Triangles	
4-1 Classifying Triangles	Geometry and Spatial Relationships 1.A, 1.B
4-2 Angles of Triangles	Geometry and Spatial Relationships 2.B
4-3 Congruent Triangles	Geometry and Spatial Relationships 1.A, 1.B
4-4 Proving Congruence: SSS, SAS	Geometry and Spatial Relationships 1.A Measurement 2.B
4-5 Proving Congruence: ASA, AAS	Geometry and Spatial Relationships 1.A Measurement 2.B
4-6 Isosceles and Equilateral Triangles	Geometry and Spatial Relationships 1.A, 1.B
4-7 Congruence Transformations	Geometry and Spatial Relationships 3.A
4-8 Triangles and Coordinate Proof	Geometry and Spatial Relationships 1.A
Chapter 5 Relationships in Triangles	
5-1 Bisectors of Triangles	Measurement 1.B
5-2 Medians and Altitudes of Triangles	Geometry and Spatial Relationships 1.B
5-3 Inequalities in One Triangle	Geometry and Spatial Relationships 1.B, 4.B
5-4 Indirect Proof	Geometry and Spatial Relationships 1.A
5-5 The Triangle Inequality	Geometry and Spatial Relationships 1.B
5-6 Inequalities in Two Triangles	There are no state-mandated Geometry CLEs for this topic.

CHAPTER/LESSON TITLES	COURSE-LEVEL EXPECTATIONS
Chapter 6 Quadrilaterals	
6-1 Angles of Polygons	Measurement 2.B
6-2 Parallelograms	Geometry and Spatial Relationships 1.C
6-3 Tests for Parallelograms	Measurement 2.B
6-4 Rectangles	Geometry and Spatial Relationships 1.C
6-5 Rhombi and Squares	Geometry and Spatial Relationships 1.C
6-6 Kites and Trapezoids	Geometry and Spatial Relationships 1.C
Unit 3 Similarity	
Chapter 7 Proportions and Similarity	
7-1 Ratios and Proportions	Number and Operations 3.E
7-2 Similar Polygons	Number and Operations 3.E
7-3 Similar Triangles	Geometry and Spatial Relationships 4.B Number and Operations 3.E
7-4 Parallel Lines and Proportional Parts	Geometry and Spatial Relationships 1.B
7-5 Parts of Similar Triangles	Number and Operations 3.E
7-6 Similarity Transformations	Geometry and Spatial Relationships 3.A
7-7 Scale Drawings and Models	Geometry and Spatial Relationships 4.B Number and Operations 3.E

CHAPTER/LESSON TITLES	COURSE-LEVEL EXPECTATIONS
Chapter 8 Right Triangles and Trigonometry	
8-1 Geometric Mean	Geometry and Spatial Relationships 4.B
8-2 The Pythagorean Theorem and Its Converse	Geometry and Spatial Relationships 1.A
8-3 Special Right Triangles	Measurement 2.B
8-4 Trigonometry	Geometry and Spatial Relationships 1.A
8-5 Angles of Elevation and Depression	Measurement 2.B
8-6 The Law of Sines and Law of Cosines	Number and Operations 3.E
8-7 Vectors	There are no state-mandated Geometry CLEs for this topic.
Chapter 9 Transformations and Symmetry	
9-1 Reflections	Geometry and Spatial Relationships 3.A
9-2 Translations	Geometry and Spatial Relationships 3.A
9-3 Rotations	Geometry and Spatial Relationships 3.A
9-4 Compositions of Transformations	Geometry and Spatial Relationships 3.A, 3.B
9-5 Symmetry	Geometry and Spatial Relationships 3.C
9-6 Dilations	Geometry and Spatial Relationships 3.A
Unit 4 Measurement	
Chapter 10 Circles	
10-1 Circles and Circumference	Geometry and Spatial Relationships 1.C
10-2 Measuring Angles and Arcs	Measurement 2.B

CHAPTER/LESSON TITLES	COURSE-LEVEL EXPECTATIONS
10-3 Arcs and Chords	There are no state-mandated Geometry CLEs for this topic.
10-4 Inscribed Angles	There are no state-mandated Geometry CLEs for this topic.
10-5 Tangents	There are no state-mandated Geometry CLEs for this topic.
10-6 Secants, Tangents, and Angle Measures	There are no state-mandated Geometry CLEs for this topic.
10-7 Special Segments in a Circle	There are no state-mandated Geometry CLEs for this topic.
10-8 Equations of Circles	Algebraic Relationships 2.A, 2.B
Chapter 11 Areas of Polygons and Circles	
11-1 Areas of Parallelograms and Triangles	Measurement 2.A
11-2 Areas of Trapezoids, Rhombi, and Kites	Measurement 2.A
11-3 Areas of Circles and Sectors	Measurement 2.A
11-4 Areas of Regular Polygons and Composite Figures	Geometry and Spatial Relationships 1.C Measurement 2.A
11-5 Areas of Similar Figures	Geometry and Spatial Relationships 4.B
Chapter 12 Extending Surface Area and Volume	
12-1 Representations of Three-Dimensional Figures	Geometry and Spatial Relationships 4.B
12-2 Surface Areas of Prisms and Cylinders	Measurement 2.C
12-3 Surface Areas of Pyramids and Cones	Measurement 2.C
12-4 Volumes of Prisms and Cylinders	Measurement 2.C
12-5 Volumes of Pyramids and Cones	Measurement 2.C
12-6 Surface Areas and Volumes of Spheres	Measurement 2.C

CHAPTER/LESSON TITLES	COURSE-LEVEL EXPECTATIONS
12-7 Spherical Geometry	There are no state-mandated Geometry CLEs for this topic.
12-8 Congruent and Similar Solids	Geometry and Spatial Relationships 4.B
Chapter 13 Probability and Measurement	
13-1 Representing Sample Spaces	Data and Probability 1.C
13-2 Permutations and Combinations	Data and Probability 2.A
13-3 Geometric Probability	Data and Probability 2.A Geometry and Spatial Relationships 4.B
13-4 Simulations	Data and Probability 1.A, 1.B
13-5 Probabilities of Independent and Dependent Events	Data and Probability 4.A, 4.B
13-6 Probabilities of Mutually Exclusive Events	Data and Probability 4.A, 4.B