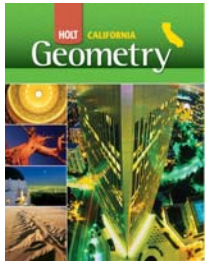
Geometry: Textbook Connections



Holt California Geometry

UNIT 2

Topic	Standards	Book Sections
Triangle Congruency and Similarity	**2.0** Students write geometric proofs, including proofs by contradiction. **4.0** Students prove basic theorems involving congruence and similarity **5.0** Students prove that triangles are congruent or similar, and they are able to use the concept of corresponding parts of congruent triangles. **6.0** Students know and are able to use the triangle inequality theorem. **16.0** Students perform basic constructions with a straightedge and compass, such as angle bisectors, perpendicular bisectors, and the line parallel to a given line through a point off the line. **17.0** Students prove theorems by using coordinate geometry, including the midpoint of a line segment, the distance formula, and various forms of equations of lines and circles	**4.3** Congruent Triangles **4.4** Triangle Congruence: SSS and SAS **4.5** Triangle Congruence: ASA, AAS and HL **4.6** Triangle Congruence: CPCTC **4.7** Introduction to Coordinate Proof **4.8** Isosceles and Equilateral Triangles **5.1** Perpendicular and Angle Bisectors **5.2** Bisectors of Triangles **5.3** Medians and Altitudes of triangles **5.4** The Triangle Mid-segment Theorem **5.5** Indirect Proof and Inequalities in One Triangle **7.1** Ratio and Proportion **7.2** Ratios in Similar Polygons **7.3** Triangle Similarity: AA, SSS, SAS **7.4** Applying Properties of Similar Triangles **7.5** Using Proportional Relationships
Properties of Quadrilaterals	**7.0** Students prove and use theorems involving the properties of parallel lines cut by a transversal, the properties of quadrilaterals, and the properties of a circle. **17.0** Students prove theorems by using coordinate geometry, including the midpoint of a line segment, the distance formula, and various forms of equations of lines and circles	**6.2** Properties of Parallelograms **6.3** Conditions for Parallelograms **6.4** Properties for Special Parallelograms **6.5** Conditions for Special Parallelograms **6.6** Properties of Kites and Trapezoids
Proof and Use of the Pythagorean theorem	**14.0** Students prove the Pythagorean Theorem **15.0** Students use the Pythagorean Theorem to determine distance and find missing lengths of sides of right triangles.	**LAB** Hands on Proof of the Pythagorean Theorem (Page 348) **5.7** The Pythagorean Theorem