

Glencoe Geometry (2004)	
HIGH SCHOOL ASSESSMENT OBJECTIVES	
OBJECTIVE	PAGE REFERENCE
GOAL 2: GEOMETRY, MEASUREMENT, AND REASONING	
The student will demonstrate the ability to solve mathematical and real world problems using measurement and geometric models and will justify solutions and explain processes used.	
2.1 Expectation: The student will represent and analyze two-and three-dimensional figures using tools and technology when appropriate.	
Indicators:	SE: 4-51, 126-131, 178-185, 236-254, 261-273, 282-323, 404-444, 522-543, 636-648
2.1.1 The student will analyze the properties of geometric figures.	SE: 4-51, 126-131, 178-185, 236-254, 261-273, 282-323, 404-444, 522-543, 636-648
2.1.2 The student will identify and/or verify properties of geometric figures using the coordinate plane and concepts from algebra.	SE: 222-226, 287, 296, 309, 311, 313, 447-451, 468-469, 472-474, 479-481, 488, 497, 528, 597, 599, 600, 603, 606, 616, 618, 620-621, 642, 714-719
2.1.3 The student will use transformations to move figures, create designs, and/or demonstrate geometric properties.	SE: Chapter 9 460-518
2.1.4 The student will construct and/or draw and/or validate properties of geometric figures using appropriate tools and technology.	SE: 15, 18, 20, 24, 28, 31, 32, 44, 51, 88, 132, 151, 158,160, 165, 184, 200, 202, 207, 214, 236, 237, 288, 311, 314, 324, 349, 384, 391, 410, 425, 433, 435, 438, 441, 444, 462, 489, 542, 554, 556, 559, 560, 677, 695

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2.2 <i>Expectation: The student will apply geometric properties and relationships to solve problems using tools and technology when appropriate.</i>	
Indicators	SE: Chapter 4 Congruent Triangles, pp. 174 - 232 Chapter 6 Similar Triangles, pp. 280-338
2.2.1 The student will identify and/or verify congruent and similar figures and/or apply equality or proportionality of their corresponding parts.	
2.2.2 The student will solve problems using two-dimensional figures and/or right triangle trigonometry.	SE: Chapter 7 Trigonometry pp. 342-391 Chapter 8 Quadrilaterals pp. 404-445 Chapter 11 Area pp. 595-621 Chapter 12 Surface Area pp. 636 – 676 Chapter 13 Volume pp. 688-713
2.2.3. The student will use inductive or deductive reasoning.	SE: Chapter 2 pp. 60-122, 178-226, 236-273, 298-305, 307-315, 317-323, 402-455, 490-495, 528-573 Indirect Proof pp. 255-260
2.3 <i>Expectation: The student will apply concepts of measurement using tools and technology when appropriate.</i>	
Indicators	SE: 298-315
2.3.1. The student will use algebraic and/or geometric properties to measure indirectly.	Chapter 7, pp. 342-391
2.3.2 The student will use techniques of measurement and will estimate, calculate, and/or compare perimeter, circumference, area, volume, and/or surface area of two-and three-dimensional figures and their parts.	SE: Chapter 11 Area pp. 595-621 Chapter 12 Surface Area pp. 636 – 676 Chapter 13 Volume pp. 688-713