



MARYLAND
High School Assessment Objectives
***Geometry: Concepts and Applications* © 2004**

OBJECTIVES	PAGE REFERENCES
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: 62-67, 90-94, 104-109, 402-407, 408-412, 434-439, 454-458, 462-467, 468-473 TWE: EC 407, 412 MTL 408 OEA 412 RA 411, 436
2.1.1 The student will analyze the properties of geometric figures.	
2.1.2 The student will identify and/or verify properties of geometric figures using the coordinate plane and concepts from algebra.	SE: 40 #29-#30, 81 #34, 125 #8, 172 #19-#24, 173 #29, 239 #24, 243 #23, 264 ex 2, 265 #10, 266 #24-#26, 281 #31, 315 #35, 472 #23, 465 ex 2 <i>Hands-On Geometry</i> 169
2.1.3 The student will use transformations to move figures, create designs, and/or demonstrate geometric properties.	SE: 687-690, 692-696, 697-702, 707 #27, 711 #20-#23, 712 #24-#25, 713 #9-#13 TWE: EC 90, 696, 702 MTL 687 OEA 690, 696 RA 688, 694
2.1.4 The student will construct and/or draw and/or validate properties of geometric figures using appropriate tools and technology.	SE: 29-34, 44 #26-#27, 96-101 <i>Graphing Calculator Exploration</i> 79, 112, 170, 193 <i>Hands-On Geometry</i> 76, 107, 130-131, 149, 162, 169, 203, 208,
2.2 Expectation: The student will apply geometric properties and relationships to solve problems using tools and technology when appropriate.	
Indicators	SE: 203-207, 208-209, 210-214, 215-219, 221 #20-#21, 356-361, 362-367, 368-373 TWE: EC 207, 214, 219 OEA 207, 361 RA 205, 212
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: 564-569, 572-577, 579 #25-#27, 580 #28-#32, 581 #20, 591 #28, 597 #30, 628-629, 637 #42-#45, 673 #3 <i>Extra Practice Lesson</i> 13-4 751 TWE: BQ 581 EC 569, 577 MTL 572

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2.2.3 The student will use inductive or deductive reasoning.	SE: 4, 638-643, 644-648, 649-653, 654-659, 665 #25, 669 #18-#22, 670 #23-#24 TWE: EC 648, 653, 659 MTL 649 OEA 653 RA 645, 656
2.3 Expectation: The student will apply concepts of measurement using tools and technology when appropriate.	
Indicators	
2.3.1 The student will use algebraic and/or geometric properties to measure indirectly.	SE: 565 ex 2, 566 ex 3, 569 #20, 573 ex 2, 579 #27, 580 #34-#35, 581 #19-#20, 628, 629 #7 <i>Chapter 13 Investigation 570-571</i>
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: 413-418, 419-424, 425-430, 504-509, 510-515, 516-521, 522-527, 528-533 TWE: EC 418, 424, 509, 515, 521, 533 RA 428

Codes Used for TWE Pages

BQ	Chapter Test Bonus Question
EC	Extra Credit
MTL	Motivating the Lesson
OEA	Open-Ended Assessment
RA	Reteaching Activity