

# **Glencoe/McGraw-Hill**

**Glencoe Geometry ©2004**

**Mathematics, K-12; C 9-12;**

**1. Geometry**

**ISBN# 0-07-829637-4**

**correlated to**

**North Carolina**

**Mathematics Standard Course of Study**

**Geometry**

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**CORRELATED TO  
NORTH CAROLINA  
MATHEMATICS STANDARD COURSE OF STUDY  
GEOMETRY**

<b>OBJECTIVES</b>	<b>PAGE REFERENCES</b>
<b>COMPETENCY GOAL 1: The learner will perform operations with real numbers to solve problems.</b>	
1.01 Use the trigonometric ratios to model and solve problems involving right triangles.	SE: 364-366, 370, 377-379, 385-387, 608 TWE: 364-366, 370, 377-379, 385-387, 608
1.02 Use length, area, and volume of geometric figures to solve problems. Include arc length, area of sectors of circles; lateral area, surface area, and volume of three-dimensional figures; and perimeter, area, and volume of composite figures.	SE: 46-47, 68, 522-524, 532, 595-598, 610-612, 644-645, 650, 656, 661, 667, 672-673, 688-689, 690-691, 697-698, 702-703, 732-733 TWE: 46-47, 68, 522-524, 532, 595-598, 610-612, 644-645, 650, 656, 661, 667, 672-673, 688-689, 690-691, 697-698, 702-703, 732-733
1.03 Use length, area, and volume to model and solve problems involving probability.	SE: 20, 622-624 TWE: 20, 622-624
<b>COMPETENCY GOAL 2: The learner will use geometric and algebraic properties of figures to solve problems and write proofs.</b>	
2.01 Use logic and deductive reasoning to draw conclusions and solve problems.	SE: 67-71, 82-83, 88, 90, 94, 117 TWE: 67-71, 82-83, 88, 90, 94, 117
2.02 Apply properties, definitions, and theorems of angles and lines to solve problems and write proofs.	SE: R1-R5, 31, 37, 108, 126-127, 139-140, 145-147, 185-188, 238, 463, 552-553 TWE: R1-R5, 31, 37, 108, 126-127, 139-140, 145-147, 185-188, 238, 463, 552-553

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<b>OBJECTIVES</b>	<b>PAGE REFERENCES</b>
2.03 Apply properties, definitions, and theorems of two-dimensional figures to solve problems and write proofs.	
<ul style="list-style-type: none"> <li>• Triangles</li> </ul>	SE: R3-R5, 188, 192-194, 207, 215, 222-226, 230-231, 233, 355, 357-359, 783-789  TWE: R3-R5, 188, 192-194, 207, 215, 222-226, 230-231, 233, 355, 357-359, 783-789
<ul style="list-style-type: none"> <li>• Quadrilaterals</li> </ul>	SE: R6, 411-414, 424-427, 431-432, 447-449, 456-457, 459, 469, 475  TWE: R6, 411-414, 424-427, 431-432, 447-449, 456-457, 459, 469, 475
<ul style="list-style-type: none"> <li>• Other polygons</li> </ul>	SE: R8, 45-48, 404, 406, 537, 547-548, 610, 612  TWE: R8, 45-48, 404, 406, 537, 547-548, 610, 612
<ul style="list-style-type: none"> <li>• Circles</li> </ul>	SE: R7-R8, 530-532, 536-539, 544-546, 552-553, 561-564, 569-571  TWE: R7-R8, 530-532, 536-539, 544-546, 552-553, 561-564, 569-571
2.04 Develop and apply properties of solids to solve problems.	SE: 637-639, 645, 650, 656, 660, 666-667, 672, 707-708  TWE: 637-639, 645, 650, 656, 660, 666-667, 672, 707-708

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<b>OBJECTIVES</b>	<b>PAGE REFERENCES</b>
<b>COMPETENCY GOAL 3: The learner will transform geometric figures in the coordinate plane algebraically.</b>	
3.01 Describe the transformation (translation, reflection, rotation, dilation) of polygons in the coordinate plane in simple algebraic terms.	SE: 462, 463-465, 470-471, 476-478, 490-493, 506-508 TWE: 462, 463-465, 470-471, 476-478, 490-493, 506-508
3.02 Use matrix operations (addition, subtraction, multiplication, scalar multiplication) to describe the transformation of polygons in the coordinate plane.	SE: 506-508, 716, 752-753 TWE: 506-508, 716, 752-753

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Atlantic Southeast Region  
6510 Jimmy Carter Boulevard  
Norcross, GA 30071  
770/613-0281  
800/731-2365