

**Glencoe/McGraw-Hill**

**Glencoe Pre-Algebra,  
North Carolina Edition ©2004  
Mathematics, K-12; B. 6-8  
ISBN# 0-07-860370-6**

**correlated to**

**North Carolina  
Mathematics Standard Course of Study  
Grade 8**

**GLENCOE/MCGRAW-HILL  
GLENCOE PRE-ALGEBRA, NORTH CAROLINA EDITION ©2004**

**CORRELATED TO  
NORTH CAROLINA  
MATHEMATICS STANDARD COURSE OF STUDY  
GRADE 8**

<b>OBJECTIVES</b>	<b>PAGE REFERENCES</b>
<b>COMPETENCY GOAL 1: The learner will understand and compute with real numbers.</b>	
1.01 Develop number sense for the real numbers.	
<ul style="list-style-type: none"> <li>• Define and use irrational numbers.</li> </ul>	SE: 206, 437-439, 441, 443, 444, 445, 451, 477-481, 484, 486, 487, 567, 586, 745  TWE: 206, 437-439, 441, 443, 444, 445, 451, 477-481, 484, 486, 487, 567, 586, 745
<ul style="list-style-type: none"> <li>• Compare and order.</li> </ul>	SE: 57, 59, 188, 228, 269, 283-284, 442, 710  TWE: 57, 59, 188, 228, 269, 283-284, 442, 710
<ul style="list-style-type: none"> <li>• Use estimates of irrational numbers in appropriate situations.</li> </ul>	SE: 437-439, 445, 477-481, 486, 564, 567, 586, 745  TWE: 437-439, 445, 477-481, 486, 564, 567, 586, 745
1.02 Develop flexibility in solving problems by selecting strategies and using mental computation, estimation, calculators or computers, and paper and pencil.	This objective is addressed throughout the text. See, for example:  SE: 25-26, 29-31, 33, 51, 66, 74, 102, 104, 127, 160, 201, 437-440, 478-480, 525, 534, 561, 628, 745  TWE: 25-26, 29-31, 33, 51, 66, 74, 102, 104, 127, 160, 201, 437-440, 478-480, 525, 534, 561, 628, 745

**GLENCOE/MCGRAW-HILL  
GLENCOE PRE-ALGEBRA, NORTH CAROLINA EDITION ©2004**

**CORRELATED TO**

**NORTH CAROLINA  
MATHEMATICS STANDARD COURSE OF STUDY  
GRADE 8**

<b>OBJECTIVES</b>	<b>PAGE REFERENCES</b>
<b>COMPETENCY GOAL 2: The learner will understand and use measurement concepts.</b>	
2.01 Determine the effect on perimeter, area or volume when one or more dimensions of two- and three-dimensional figures are changed.	SE: 137, 385, 565  TWE: 137, 385, 565
2.02 Apply and use concepts of indirect measurement.	SE: 471-475, 477-481, 486  TWE: 471-475, 477-481, 486
<b>COMPETENCY GOAL 3: The learner will understand and use properties and relationships in geometry.</b>	
3.01 Represent problem situation with geometric models.	SE: 458-459, 460, 472, 476, 498-499, 500, 518-519, 520-521, 522, 535, 554-555, 560, 562-563, 565, 568-569, 573, 575, 579  TWE: 458-459, 460, 472, 476, 498-499, 500, 518-519, 520-521, 522, 535, 554-555, 560, 562-563, 565, 568-569, 573, 575, 579
3.02 Apply geometric properties and relationships, including the Pythagorean theorem, to solve problems.	SE: 9, 106, 208, 224, 394, 458-459, 460, 472, 476, 498-499, 500, 518-519, 520-521, 522, 535, 554-555, 560, 562-563, 565, 568-569, 573, 575, 579  TWE: 9, 106, 208, 224, 394, 458-459, 460, 472, 476, 498-499, 500, 518-519, 520-521, 522, 535, 554-555, 560, 562-563, 565, 568-569, 573, 575, 579

**GLENCOE/MCGRAW-HILL  
GLENCOE PRE-ALGEBRA, NORTH CAROLINA EDITION ©2004**

**CORRELATED TO  
NORTH CAROLINA  
MATHEMATICS STANDARD COURSE OF STUDY  
GRADE 8**

<b>OBJECTIVES</b>	<b>PAGE REFERENCES</b>
3.03 Identify, predict, and describe dilations in the coordinate plane.	SE: 512 TWE: 512, 551A, 551B
<b>COMPETENCY GOAL 4: The learner will understand and use graphs and data analysis.</b>	
4.01 Collect, organize, analyze, and display data (including scatterplots) to solve problems.	This objective is addressed throughout the text. See, for example:  SE: 39, 40-42, 45-46, 238-239, 269, 386, 408, 410-412, 606-611, 623-628, 660, 752, 753  TWE: 39, 40-42, 45-46, 238-239, 253, 269, 386, 408, 410-412, 606-611, 623-628, 660, 752, 753
4.02 Approximate a line of best fit for a given scatterplot; explain the meaning of the line as it relates to the problem and make predictions.	SE: 409-413, 427, 429 TWE: 409-413, 427, 429
4.03 Identify misuses of statistical and numerical data.	SE: 630-634 TWE: 630-634
<b>COMPETENCY GOAL 5: The learner will understand and use linear relations and functions.</b>	
5.01 Develop an understanding of function.	
<ul style="list-style-type: none"> <li>• Translate among verbal, tabular, graphic, and algebraic representations of functions.</li> </ul>	SE: 369-373, 424, 537, 687-691, 692-696, 700, 741, 757  TWE: 369-373, 424, 537, 687-691, 692-696, 700, 741, 757

**GLENCOE/MCGRAW-HILL  
GLENCOE PRE-ALGEBRA, NORTH CAROLINA EDITION ©2004**

**CORRELATED TO**

**NORTH CAROLINA  
MATHEMATICS STANDARD COURSE OF STUDY  
GRADE 8**

<b>OBJECTIVES</b>	<b>PAGE REFERENCES</b>
<ul style="list-style-type: none"> <li>• Identify relations and functions as linear or nonlinear.</li> </ul>	SE: 35-38, 50, 367, 687-691, 700  TWE: 35-38, 50, 367, 687-691, 700
<ul style="list-style-type: none"> <li>• Find, identify, and interpret the slope (rate of change) and intercepts of a linear relation.</li> </ul>	SE: 387-391, 395, 397, 398, 400-401, 404, 408, 412-413, 418, 426-427, 429, 470, 639, 742-743  TWE: 687-691, 700, 701, 757
<ul style="list-style-type: none"> <li>• Interpret and compare properties of linear functions from tables, graphs, or equations.</li> </ul>	SE: 687-691, 700, 701, 757  TWE: 687-691, 700, 701, 757
5.02 Write an equation of a linear relationship given: two points, the slope and one point on the line, or the slope and y-intercept.	SE: 404-408, 427  TWE: 404-408, 427
5.03 Solve problems using linear equations and inequalities; justify symbolically and graphically.	SE: 375-377, 378-379, 381-385, 408, 425, 447, 667  TWE: 375-377, 378-379, 381-385, 408, 425, 447, 667
5.04 Solve problems using the inverse relationships of addition and subtraction, multiplication and division, squares and square roots, and cubes and cube roots.	SE: 28-29, 49, 68, 110, 113, 118, 121-124, 141, 157, 258, 373, 440, 443, 491, 511, 588, 725, 729-730, 736, 739-740, 744-745  TWE: 28-29, 49, 68, 110, 113, 118, 121-124, 141, 157, 258, 373, 440, 443, 491, 511, 588, 725, 729-730, 736, 739-740, 744-745

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