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11. Algebra 1

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correlated to

**North Carolina
Mathematics Standard Course of Study
Algebra 1**

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GLENCOE ALGEBRA: CONCEPTS AND APPLICATIONS ©2004
FULL VOLUME, PART 1 & PART 2

CORRELATED TO
NORTH CAROLINA
MATHEMATICS STANDARD COURSE OF STUDY
ALGEBRA 1

OBJECTIVES	PAGE REFERENCES
COMPETENCY GOAL 1: The learner will perform operations with numbers and expressions to solve problems.	
1.01 Write equivalent forms of algebraic expressions to solve problems.	
<ul style="list-style-type: none"> • Apply the laws of exponents. 	SE: 336–337, 348, 374–375, 455 TWE: 336–337, 348, 374–375, 455
<ul style="list-style-type: none"> • Operate with polynomials. 	SE: 383–387, 393–396, 412–415, 429–432, 451–453, 463, 559, 605, 651–652, 676–677 TWE: 383–387, 393–396, 412–415, 429–432, 451–453, 463, 559, 605, 651–652, 676–677
<ul style="list-style-type: none"> • Factor polynomials. 	SE: 429–432, 437, 444, 449, 451–453, 463, 557, 605 TWE: 429–432, 437, 444, 449, 451–453, 463, 557, 605
1.02 Use formulas and algebraic expressions, including iterative and recursive forms, to model and solve problems.	SE: 4–5, 13, 21, 79, 109, 111, 113, 115, 151, 164, 171, 174, 177, 205, 235, 246, 596 TWE: 4–5, 13, 21, 79, 109, 111, 113, 115, 151, 164, 171, 174, 177, 205, 235, 246, 596
1.03 Model and solve problems using direct variation.	SE: 264–265, 267–268, 270, 273–274, 278, 356, 444, 637 TWE: 264–265, 267–268, 270, 273–274, 278, 356, 444, 637

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COMPETENCY GOAL 2: The learner will describe geometric figures in the coordinate plane algebraically.	
2.01 Find the lengths and midpoints of segments to solve problems.	SE: 607–609, 612–613, 673 TWE: 607–609, 612–613, 673
2.02 Use the parallelism or perpendicularity of lines and segments to solve problems.	SE: 322, 324–328, 330–331, 454, 555, 562, 686 TWE: 322, 324–328, 330–331, 454, 555, 562, 686
COMPETENCY GOAL 3: The learner will collect, organize, and interpret data with matrices and linear models to solve problems.	
3.01 Use matrices to display and interpret data.	SE: 80–81 TWE: 80–81
3.02 Operate (addition, subtraction, scalar multiplication) with matrices to solve problems.	SE: 80–81, 578–579 TWE: 80–81, 578–579
3.03 Create linear models for sets of data to solve problems.	
<ul style="list-style-type: none"> • Interpret constants and coefficients in the context of the data. 	SE: 283, 302–309, 321, 328–329 TWE: 283, 302–309, 321, 328–329
<ul style="list-style-type: none"> • Check the model for goodness-of-fit and use the model, where appropriate, to draw conclusions or make predictions. 	SE: 283, 302–309, 321, 328–329 TWE: 283, 302–309, 321, 328–329

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OBJECTIVES	PAGE REFERENCES
COMPETENCY GOAL 4: The learner will use relations and functions to solve problems.	
4.01 Use linear functions or inequalities to model and solve problems; justify results.	
<ul style="list-style-type: none"> • Solve using tables, graphs, and algebraic properties. 	SE: 283, 284–289, 290–295, 296–301, 310–315, 316–321, 322–327, 330, 504–508, 535–536, 538–539, 542–545, 586–591, 594 TWE: 283, 284–289, 290–295, 296–301, 310–315, 316–321, 322–327, 330, 504–508, 535–536, 538–539, 542–545, 586–591, 594
<ul style="list-style-type: none"> • Interpret constants and coefficients in the context of the data. 	SE: 283, 290–298, 299–301, 302–309, 311–312, 321–329, 331, 335–356 TWE: 283, 290–298, 299–301, 302–309, 311–312, 321–329, 331, 335–356
4.02 Graph, factor, and evaluate quadratic functions to solve problems.	SE: 456–457, 458–463, 464–467, 468–472, 474–477, 478–481, 483–486 TWE: 456–457, 458–463, 464–467, 468–472, 474–477, 478–481, 483–486
4.03 Use systems of linear equations or inequalities in two variables to model and solve problems. Solve using tables, graphs, and algebraic properties; justify results.	SE: 548–549, 550–553, 554–559, 560–564, 566–571, 572–577, 586–591 TWE: 548–549, 550–553, 554–559, 560–564, 566–571, 572–577, 586–591
4.04 Graph and evaluate exponential functions to solve problems.	SE: 489–493, 496 TWE: 489–493, 496

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