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Mathematics, K-12; C 9–12;**

**11. Algebra 1
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correlated to

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

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 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: 7, 410, 417–421, 469 TWE: 7, 410, 417–421, 469
<ul style="list-style-type: none"> • Operate with polynomials. 	SE: 432–436, 437–438, 444–449, 450–451, 452–457, 472–474, 480–486, 487–494, 495–500, 501–506, 508–515, 666–671 TWE: 432–436, 437–438, 444–449, 450–451, 452–457, 472–474, 480–486, 487–494, 495–500, 501–506, 508–515, 666–671
<ul style="list-style-type: none"> • Factor polynomials. 	SE: 472–474, 480–486, 487–494, 495–500, 501–506, 508–515 TWE: 472–474, 480–486, 487–494, 495–500, 501–506, 508–515
1.02 Use formulas and algebraic expressions, including iterative and recursive forms, to model and solve problems.	SE: 12–13, 120–126, 128–134, 135–139, 142–148, 149–154, 183–184, 212–214, 233–239, 240–245, 286–291, 345–346, 546–552, 554–560, 611–615 TWE: 12–13, 120–126, 128–134, 135–139, 142–148, 149–154, 183–184, 212–214, 233–239, 240–245, 286–291, 345–346, 546–552, 554–560, 611–615
1.03 Model and solve problems using direct variation.	SE: 264–270, 277, 285, 309 TWE: 264–270, 277, 285, 309

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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: 196, 611–615, 635 TWE: 196, 611–615, 635
2.02 Use the parallelism or perpendicularity of lines and segments to solve problems.	SE: 292–295, 311–312, 369, 399, 853 TWE: 292–295, 311–312, 369, 399, 853
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: 715, 720 TWE: 715, 720
3.02 Operate (addition, subtraction, scalar multiplication) with matrices to solve problems.	SE: 715–721, 728, 746, 749, 849 TWE: 715–721, 728, 746, 749, 849
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: 298–306 TWE: 298–306
<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: 300–306 TWE: 300–306

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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: 205–211, 212–217, 218–225, 226–239, 240–250, 257–263, 272–279, 280–285, 286–291, 318–319, 339–341, 346–348, 524–530, 533–538, 574–575 TWE: 205–211, 212–217, 218–225, 226–239, 240–250, 257–263, 272–279, 280–285, 286–291, 318–319, 339–341, 346–348, 524–530, 533–538, 574–575
<ul style="list-style-type: none"> • Interpret constants and coefficients in the context of the data. 	SE: 257–263, 272–279, 280–285, 286–291, 524–530, 533–538, 574–575 TWE: 257–263, 272–279, 280–285, 286–291, 524–530, 533–538, 574–575
4.02 Graph, factor, and evaluate quadratic functions to solve problems.	SE: 524–530, 533–538, 546–552, 560, 565, 574–575, 576–577, 691 TWE: 524–530, 533–538, 546–552, 560, 565, 574–575, 576–577, 691
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: 369–374, 376–381, 382–386, 387–393, 394–398, 397–399, 401–403 TWE: 369–374, 376–381, 382–386, 387–393, 394–398, 397–399, 401–403
4.04 Graph and evaluate exponential functions to solve problems.	SE: 554–560, 561–566, 577–578 TWE: 554–560, 561–566, 577–578

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