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9. Introductory Mathematics
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correlated to

**North Carolina
Mathematics Standard Course of Study
Introductory Mathematics**

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CORRELATED TO

**NORTH CAROLINA
MATHEMATICS STANDARD COURSE OF STUDY
INTRODUCTORY MATHEMATICS**

OBJECTIVES	PAGE REFERENCES
COMPETENCY GOAL 1: The learner will understand and compute with real numbers.	
1.01 Develop number sense for the real numbers.	
<ul style="list-style-type: none"> • Define and use irrational numbers. 	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"> • Compare and order. 	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"> • Use estimates of irrational numbers in appropriate situations. 	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

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COMPETENCY GOAL 2: The learner will use properties and relationships in geometry and measurement concepts to solve problems.	
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
2.03 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
2.04 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
2.05 Identify, predict, and describe dilations in the coordinate plane.	SE: 512 TWE: 512, 551A, 551B

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COMPETENCY GOAL 3: The learner will understand and use graphs and data analysis.	
3.01 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
3.02 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
3.03 Identify misuses of statistical and numerical data.	SE: 630–634 TWE: 630–634
COMPETENCY GOAL 4: The learner will understand and use linear relations and functions.	
4.01 Develop an understanding of function.	
<ul style="list-style-type: none"> • Translate among verbal, tabular, graphic, and algebraic representations of functions. 	SE: 369-373, 424, 537, 687-691, 692-696, 700, 741, 757 TWE: 369-373, 424, 537, 687-691, 692-696, 700, 741, 757
<ul style="list-style-type: none"> • Identify relations and functions as linear or nonlinear. 	SE: 35-38, 50, 367, 687-691, 700 TWE: 35-38, 50, 367, 687-691, 700

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OBJECTIVES	PAGE REFERENCES
<ul style="list-style-type: none"> • Find, identify, and interpret the slope (rate of change) and intercepts of a linear relation. 	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"> • Interpret and compare properties of linear functions from tables, graphs, or equations. 	SE: 687-691, 700, 701, 757 TWE: 687-691, 700, 701, 757
4.02 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
4.03 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
4.04 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

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