



Math Teachers Press, Inc.

4850 Park Glen Road, Minneapolis, MN 55416
 phone (800) 852-2435 fax (952) 546-7502

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NORTH CAROLINA COURSE OF STUDY CORRELATED TO MOVING WITH ALGEBRA GRADE 8

		Part A Student Book Skill Builders (SB)	Part B Student Book Skill Builders (SB)
STRANDS: NUMBER AND OPERATIONS, MEASUREMENT, GEOMETRY, DATA ANALYSIS AND PROBABILITY, ALGEBRA			
Competency Goal 1: The learner will understand and compute with real numbers.			
1.01	Develop number sense for the real numbers.	62, 63, 80 SB: 61	
a.	Define and use irrational numbers		
b.	Compare and order.	64, 89, 90, 135, 136 SB: 54, 67-69, 112, 113, 144	241, 242
c.	Use estimates of irrational numbers in appropriate situations.		209 SB: 177
1.02	Develop flexibility in solving problems by selecting strategies and using mental computation, estimation, calculators or computers, and paper and pencil.	32-35, 54, 55, 58, 59, 105, 106, 116, 145, 158- 160 SB: 27, 46, 51, 53. 87	273, 274 SB: 204, 217, 218, 245
Competency Goal 2: The learner will understand and use measurement concepts.			
2.01	Determine the effect on perimeter, area, or volume when one or more dimensions of two- and three-dimensional figures are changed.		SB: 183
2.02	Apply and use concepts of indirect measurement.		224-227 SB: 189, 191, 192
Competency Goal 3: The learner will understand and use properties and relationships in geometry.			
3.01	Represent problem situations with geometric models.		

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3.02	Apply geometric properties and relationships, including the Pythagorean Theorem, to solve problems.		194-200, 207-214, 218, 219, 225-227 SB: 163, 165-167, 176, 177, 179-183, 186, 189, 191, 192
3.03	Identify, predict, and describe dilations in the coordinate plane.		
	Competency Goal 4: The learner will understand and use graphs and data analysis.		
4.01	Collect, organize, analyze, and display data (including scatterplots) to solve problems.	56, 57 SB: 47-50	
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 makes predictions.		
4.03	Identify misuses of statistical and numerical data.		
	Competency Goal 5: The learner will understand and use linear relations and functions.		
5.01	Develop an understanding of function.		
a.	Translate among verbal, tabular, graphic, and algebraic representations of functions.		231, 232, 311-317 SB: 196, 197, 236-239, 254
b.	Identify relations and functions as linear or nonlinear.		318, 319 SB: 240
c.	Find, identify, and interpret the slope (rate of change) and intercepts of a linear relation.		320-324 SB: 241, 242
d.	Interpret and compare properties of linear functions from tables, graphs, or equations.		325, 326 SB: 242, 254
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.		325-328 SB: 243
5.03	Solve problems using linear equations and inequalities; justify symbolically and graphically.		273, 274, 279, 280, 283-285, 315-317 SB: 225, 249, 254
5.04	Solve equations using the inverse relationships of addition and subtraction, multiplication and division, squares and square roots, and cubes and cube roots.		255, 259, 261 SB: 212-216