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1, Mathematics in Context*
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SUBJECT: Mathematics, K-12

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COMMENTS:

APPLIED MATHEMATICS I
Instructional Goals and Objectives

(Vendor/Publisher) SPECIFIC LOCATION OF CONTENT WITHIN PRODUCT	Goals and Objectives
pp. 1.14-1.15, 1.19-1.20, 1.26-1.27, 1.40-1.44, 2.5, 2.23-2.26, 2.33-2.35, 3.18, 3.27, 3.29-3.34, 4.45-4.48, 5.45-5.46, 5.48-5.52, 6.21, 6.45-6.48, 7.15, 7.20-7.23, 7.58-7.62, 8.7-8.8, 8.41, 8.44-8.47, 8.51, 9.45-9.51, 11.12, 11.15, 11.48-11.49, 12.18, 12.35, 12.45-12.50	1. use a scientific calculator to perform the basic operations of whole numbers, fractions, and decimals;
pp. 1.39, 2.33-2.35, 3.17, 3.30-3.32, 3.35, 4.45-4.48, 5.57, 6.35, 6.61	2. estimate using both a rough estimate and truncating before solving a problem involving computation;
pp. 2.16-2.27, 2.35-2.45, 8.36, 10.25	3. write numbers in scientific notation and combine numbers written in scientific notation to solve problems;
pp. 1.8, 1.13, 1.40-1.44, 1.49, 1.55, 2.21, 2.33-2.35, 2.41, 3.17, 3.29-3.34, 4.45-4.48, 4.54, 5.48-5.52, 5.62-5.63, 6.45-6.47, 6.51, 6.55-6.56, 6.60-6.61, 7.58-7.59, 7.67, 7.71, 8.47-8.48, 9.45-9.51, 11.42-11.49, 12.45-12.50	4. distinguish between counting and measuring using precision tools to make measurements;
pp. 1.5-1.39, 1.41-1.61, 2.7	5. solve problems and interpret results using signed numbers and vectors;
pp. 3.4-3.16, 4.8-4.9, 4.26-4.29, 4.31-4.35, 4.37, 4.43, 5.27-5.28, 5.39, 10.6-10.7, 10.16-10.18, 10.21, 10.25, 10.35, 10.47, 11.19	6. simplify numerical expressions and evaluate algebraic expressions using grouping symbols and order of operations;
pp. 1.15, 1.17, 1.21, 2.19, 2.24-2.27, 2.36-2.45, 3.8-3.9, 3.15-3.16, 3.20, 3.23-3.24, 3.28, 3.35-3.43, 4.6, 4.8-4.9, 4.14, 4.19, 4.23, 4.28, 4.35, 4.37-4.44, 4.50-4.61, 5.32, 5.43-5.44, 6.17, 6.36, 6.38, 6.44, 6.48-6.63, 7.10, 7.17, 7.30, 7.37-7.38, 7.45, 7.51, 7.57, 8.7-8.8, 8.12, 8.16, 8.20-8.21, 8.23, 8.28, 8.30-8.31, 8.33, 8.35-8.36, 8.42-8.43, 8.47-8.57, 9.6-9.8, 9.11-9.12, 9.16, 9.18-9.19, 9.25-9.26, 9.29-9.30, 9.35, 9.38-9.39, 9.43, 9.52-9.61, 10.20, 10.26, 10.31, 10.38, 10.46, 10.58-10.60, 11.8-11.9, 11.16, 11.21, 11.29, 11.31, 11.33, 11.40, 11.50-11.61, 12.10-12.11, 12.15, 12.22, 12.32, 12.40, 12.51-12.62	7. translate word phrases into algebraic expressions or word sentences into equations and inequalities;
pp. 4.4-4.63	8. justify steps in the simplification of expressions and

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	the solving of equations based on the properties of real numbers;
pp. 3.4-3.45, 4.4, 4.7-4.8, 4.16, 4.23, 4.25, 4.35, 4.45, 4.50	9. solve literal equations (i.e. formulas) for a given variable and apply the skills toward solving practical problems;
pp. 4.3-4.63, 9.3-9.63	10. represent problems and solve linear algebraic equations and inequalities using a four step problem solving approach;
pp. 1.6, 1.12, 1.18, 1.21, 1.28, 1.33, 1.40-1.41, 1.48-1.58, 1.62, 2.7, 2.32, 2.37, 2.41, 3.12, 3.16, 3.40, 3.44-3.45, 4.45, 4.47, 4.54, 4.56, 4.59, 5.12-5.14, 5.24-5.30, 5.38, 5.42, 5.48-5.54, 5.56-5.63, 6.4-6.6, 6.11-6.15, 6.18, 6.22, 6.25, 6.35, 6.40, 6.45-6.61, 7.4, 7.8, 7.11-7.23, 7.26, 7.29, 7.31, 7.41, 7.44, 7.46, 7.58-7.75, 8.4-8.17, 8.22, 8.49, 8.51-8.52, 8.54-8.55, 8.57, 9.17, 9.31-9.51, 9.59-9.60, 11.4-11.22, 11.25-11.27, 11.38, 11.43-11.49, 11.53	11. collect, organize, and interpret data using graphs, charts, and tables;
pp. 6.10-6.17, 9.27-9.30	12. solve absolute value equations in one variable and interpret the results on the number line;
pp. 2.4 - 2.26, 3.22, 3.27, 3.35 - 3.38, 4.22, 6.18 -6.23, 10.21 - 10.26	13. use the laws of exponents to perform operations on expressions with integral exponents;
pp. 6.25-6.32, 6.61-6.63, 12.18-12.22	14. estimate and simplify square roots.
	Computer and Technology
pp. 8.41, 11.48-11.49, 11.56	15. use appropriate software to practice and master Applied Mathematics I instructional objectives;
pp. 1.14-1.15, 1.19-1.20, 1.26-1.27, 1.40-1.44, 2.5, 2.23-2.26, 2.33-2.35, 3.18, 3.27, 3.29-3.34, 4.45-4.48, 5.45-5.46, 5.48-5.52, 6.21, 6.45-6.48, 7.15, 7.20-7.23, 7.58-7.62, 8.7-8.8, 8.41, 8.44-8.47, 8.51, 9.45-9.51, 11.12, 11.15, 11.48-11.49, 12.18, 12.35, 12.45-12.50	16. use a scientific calculator to perform basic operations with whole numbers, fractions, and decimals;
pp. 5.45-5.52, 5.54, 5.57, 5.62-5.63, 6.45-6.47, 7.18	17. use graphic software to create graphs, charts, and tables from given data;
The use of a spreadsheet is not required in the text but a spreadsheet could be easily adapted to solve linear equations: see pp. 4.45-4.47, 4.54	18. use a spreadsheet to solve linear equations;
The use of a software package is not required but could be adapted to develop formula, measurement or equality tables: see pp. 3.11-3.13, 3.17, 3.25-3.27, 3.29-	19. use an integrated software package to develop a formula table, a measurement table, and an equality table;

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3.324.45, 4.47, 5.49-5.52, 6.45	table.