Feb. 07

IDAHO ACHIEVEMENT STANDARDS CORRELATED TO
MOVING WITH ALGEBRA GRADE 7

		Part A Student Book Skill Builders (SB)	Part B Student Book Skill Builders (SB)
	STANDARD 1: NUMBER AND OPERATION		
	Goal 1.1: Understand and use numbers.		
7.M.1.1.1	Compare magnitudes and relative magnitudes of rational numbers, including integers, fractions, and decimals (327.01.a, 327.01.c)	6, 7, 64, 88-90, 135, 136 **SB:** 5, 6, 54, 67-69, 112, 113, 139, 144	
7.M.1.1.2	Solve problems requiring the conversion between simple decimals, fractions, ratios, and percents. (327.01.b)	134, 140-142, 161-164, 168-179 **SB:** 110, 111, 115, 116, 132-134, 136-138, 145	
7.M.1.1.3	Locate the position of rational numbers on a number line. (327.01.e)	62-65, 71, 74, 78, 80, 84, 89, 130, 131, 137, 167 **SB:** 54, 55, 61, 65, 104, 107, 139	217, 241-243 **SB:** 185, 200, 201
7.M.1.1.4	Rewrite multiple factors using exponents. (327.02.c)	16-19, 22, 23, 25 **SB:** 13, 14, 17, 18	215, 294 **SB:** 247
7.M.1.1.5	Apply the number theory concepts of primes, composites, and prime factorization and find the Least Common Multiple (LCM) and the Greatest Common Factor (GCF). (327.01.d)	20, 21, 87, 97, 98 **SB:** 15, 16, 66, 79, 103	

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7.M.1.1.6	Recognize pertinent information for problem solving. (328.01.b)	32-34, 54, 55, 58, 59, 105, 106, 116, 118, 119, 145, 146, 159, 160 **SB:** 27, 28, 44-46, 51-53, 87, 88, 101, 119, 128, 129	Throughout
7.M.1.1.7	Describe the use of integers in real-world situations.	63-72, 74-78 **SB:** 139	240, 241, 243, 244, 246 **SB:** 200, 202, 204
7.M.1.1.8	Use appropriate vocabulary.	Throughout	Throughout
	Goal 1.2: Perform computations accurately.		
7.M.1.2.1	Recall the common equivalent fractions, decimals, and percents of halves, fourths, and tenths.	85, 86, 90, 161-164, 167, 168 **SB:** 69, 131, 133	
7.M.1.2.2	Add, subtract, multiply, and divide whole numbers, fractions, and decimals; and add, multiply, and divide integers. (327.02.a, 327.02.d)	26-29, 34-40, 42-51, 68-71, 74-78, 87, 93-102, 107-115, 143, 144, 147-157 **SB:** 19-24, 29-41, 56, 57, 59, 60, 66, 73-83, 89-99, 117, 118, 120-123, 125-127	244, 246-248 **SB:** 202, 204-206
7.M.1.2.3	Evaluate whole numbers in exponential form.	16, 17, 20, 21 **SB:** 13, 15, 16	
7.M.1.2.4	Evaluate numerical expressions using the order of operations with whole numbers and decimals. (327.02.b)	14 **SB:** 11	290-293 **SB:** 226-228
7.M.1.2.5	Select and use an appropriate method of computation from mental math, paper and pencil, calculator, or a combination of the three. (327.02.e)	Throughout	

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7.M.1.2.6	Use a variety of strategies including common mathematical formulas to compute problems drawn from real-life situations. (328.01.a)	32-34, 54, 55, 58, 59, 105, 106, 116, 118, 119, 145, 146, 159, 160, 169-179 **SB:** 27, 28, 44-46, 51-53, 87, 88, 101, 119, 128, 129, 133, 134, 136-138	Throughout
7.M.1.2.7	Use appropriate vocabulary and notions. (327.02.f	Throughout	Throughout
	Goal 1.3: Estimate and judge reasonableness of results.		
7.M.1.3.1	Use estimation to predict computation results. (327.03.a)	Throughout	
7.M.1.3.2	Explain when estimation is appropriate and describe the usefulness of an estimate as opposed to an exact answer. (327.03.b)	Throughout	
7.M.1.3.3	Identify whether a given estimate is an overestimate or underestimate. (327.03.c)	31 **SB:** 25, 26	
7.M.1.3.4	Use a four-function calculator to solve complex grade-level problems.	26, 27, 40, 65, 69, 71, 75, 124-127, 156, 175	216, 290-293 **SB:** 184, 226-228
7.M.1.3.5	Formulate conjectures and discuss why they must be or seem to be true. (328.02.c)		
7.M.1.3.6	Use appropriate vocabulary and notations. (327.03.d)	Throughout	Throughout
	STANDARD 2: CONCEPTS AND PRINCIPLES OF MEASUREMENT.		
	Goal 2.1: Understand and use U.S. customary and metric measurements.		
7.M.2.1.1	Select and use appropriate units and tools to make formal measurements in both systems. (329.01.a)		186, 196-199, 228-230 **SB:** 193-195, 253
7.M.2.1.2	Apply estimation of measurement to real-world and content problems using standard measuring devices. (329.01.b)		229, 233, 234

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7.M.2.1.3	Explain the differences between perimeter, area, and volume (capacity) and their measures within both systems. (329.01.c)		206-214 SB: 180-182, 174-179, 183
7.M.2.1.4	Given the formulas, find the perimeter, circumference, or area of triangles, circles, and quadrilaterals. (331.01.e)		207-211 SB: 176, 177, 179, 183
7.M.2.1.5	Convert unit of measurement within each system. (329.01.e)		233, 234 SB: 198,199
7.M.2.1.6	Solve problems involving perimeter and area of rectangles and triangles. (329.01.d)		207-209, 211 SB: 177
7.M.2.1.7	use appropriate vocabulary and notations. (329.01.f)		Throughout
	Goal 2.2: Apply the concepts of rates, ratios, and proportions.		
7.M.2.2.1	Explain rates and their relationship to ratios, and use proportions to solve problems represented with a diagram. (329.02.a, 329.03.a)	122 SB: 102	221, 222, 225-227, 275-278 SB: 187-189, 191, 192, 222, 223
7.M.2.2.2	Reduce rates to unit rates.		277 SB: 223, 246
	Goal 2.3: Apply dimensional analysis.		
7.M.2.3.1	Identify properly constructed dimensional analysis conversions. (329.04.a)		
	STANDARD 3: CONCEPTS AND LANGUAGE OF ALGEBRA AND FUNCTIONS.		
	Goal 3.1: Use algebraic symbolism as a tool to represent mathematical relationships.		
7.M.3.1.1	Use variables in simple expressions and equations. (330.01.a)	55, 58, 59, 78, 116 SB: 46, 51-53	249-252 SB: 207, 208
7.M.3.1.2	Translate simple word statements into algebraic expressions and equations. (330.01.b)	55, 58, 59, 78, 116 SB: 46, 51-53	251, 252 SB: 207, 208

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7.M.3.1.3	Use symbols "<," ">," "=," "≠," "≤," and "≥" to express relationships. (330.01.c)	6, 64, 89, 90, 135, 136 SB: 54, 67-69, 112, 144	281-287 SB: 225
	Goal 3.2: Evaluate algebraic expressions.		
7.M.3.2.1	Evaluate simple numeric and algebraic expressions using commutative, association, identity, zero, inverse, distributive, and substitution properties. (330.02.a)	10-13, 15 SB: 9, 10, 12	262-265, 268, 269, 298, 299 SB: 209, 210, 220, 231
7.M.3.2.2	Use the order of operations in evaluating simple algebraic expressions. (330.02.b)	14 SB: 11	290-293 SB: 226-228
	Goal 3.3: Solve algebraic equations and inequalities.		
7.M.3.3.1	Solve one-step equations. (330.03.a)		253-259 SB: 211-215
	Goal 3.4: Understand the concept of functions.		
7.M.3.4.1	Extend patterns involving rational numbers and describe the rule that generates the pattern. (333.01.a)		199, 221, 222, 231-234, 307-309, 311, 313 SB: 187, 196, 197, 234-236
7.M.3.4.2	Explain how a change in one quantity impacts a change in another quantity. (333.01.b)		311-317 SB: 236-239, 254
7.M.3.4.3	Use appropriate vocabulary and notations. (333.01.c)		Throughout
	Goal 3.5: Represent equations, inequalities and functions in a variety of formats.		
7.M.3.5.1	Represent a simple set of data in a table, as a graph, and as a mathematical relationship. (333.02.a)		231, 232, 311-317, 332, 333 SB: 196, 197, 236-239, 254
	Goal 3.6: Apply functions to a variety of problems.		
7.M.3.6.1	Use patterns and linear functions to represent and solve simple problems. (333.03.a)	35, 85, 122 SB: 102	231-234, 312, 314-317, 322, 323, 332, 333 SB: 197, 236-239, 242, 254

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	STANDARD 4: CONCEPTS AND PRINCIPLES OF GEOMETRY		
	Goal 4.1: Apply concepts of size, shape, and spatial relationships.		
7.M.4.1.1	Classify relationships among types of one- and two-dimensional geometric figures, using their defining properties. (331.01.a)		182-185, 188-191 SB: 147-154, 156-160
7.M.4.1.2	Draw and measure various angles and shapes using appropriate tools. (331.01.b)		186, 187 SB: 155
7.M.4.1.3	Apply fundamental concepts, properties, and relationships among points, lines, rays, planes, and angles. (331.01.c)		182-187 SB: 147-155
7.M.4.1.4	Explain and model the effects of reflections, translations, and rotations on various shapes. (331.01.g)		204 SB: 171, 172
7.M.4.1.5	Identify congruence, similarities, and line symmetry of shapes. (331.01.d)		203, 205, 223, 224 SB: 169, 170, 173, 190
7.M.4.1.6	Describe the concept of surface area and volume (capacity). (331.01.f)		212-214 SB: 180-182
7.M.4.1.7	Use appropriate vocabulary and symbols. (331.01.c)		Throughout
	Goal 4.2: Apply the geometry of right triangles.		
	No objectives at this grade level.		
	Goal 4.3: Apply graphing in two dimensions.		
7.M.4.3.1	Identify and plot points on a coordinate plane.		201, 202, 310 SB: 168
	STANDARD 5: DATA ANALYSIS, PROBABILITY, AND STATISTICS		
	Goal 5.1: Understand data analysis.		
7.M.5.1.1	Read and interpret tables, charts, and graphs, including frequency tables, scatter plots, broken line graphs, line plots, bar graphs, histograms, circle graphs, and stem-and-leaf plots. (332.01.a)	6, 7, 179 SB: 6, 101	

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7.M.5.1.2	Explain conclusions drawn from tables, charts, and graphs. (332.01.b)		
7.M.5.1.3	Use appropriate vocabulary and notations. (332.01.c)		
	Goal 5.2: Collect, organize, and display data.		
7.M.5.2.1	Collect, organize, and display data with appropriate notation in tables, charts, and graphs, including scatter plots, broken line graphs, line plots, bar graphs, and stem-and-leaf plots. (332.02.a)		
	Goal 5.3: Apply simple statistical measurements.		
7.M.5.3.1	Determine the measures of central tendency - mean, median and mode - with sets of data. (332.03.a)	56, 57 **SB:** 47-50	
7.M.5.3.2	Discuss distribution of data, including range, frequency, gaps, and clusters.	57 **SB:** 49, 50	
	Goal 5.4: Understand basic concepts of probability.		
7.M.5.4.1	Predict, perform, and record results of simple probability experiments. (332.04.a)		
7.M.5.4.2	Recognize equally likely outcomes. (332.04.c)		
7.M.5.4.3	Explain that probability ranges from impossible to certain (0% to 100%).		
7.M.5.4.4	Use the language of probability. (332.04.b)		
	Goal 5.5: Make predictions or decisions based on data.		
7.M.5.5.1	Make predictions based on simple theoretical probabilities. (332.05.a)		
7.M.5.5.2	Use appropriate vocabulary and notations. (332.05.b)		