



Math Teachers Press, Inc.

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

IDAHO ACHIEVEMENT STANDARDS CORRELATED TO MOVING WITH MATH® INTERMEDIATE/MIDDLE (IM) GRADE 6

		IM1 <i>Number, Reasoning & Data</i> Student Book Skill Builders (SB)	IM2 <i>Fractions, Decimals & Percent</i> Student Book Skill Builders (SB)	IM3 <i>Geometry, Measurement, Graphing</i> Student Book Skill Builders (SB)
STANDARD 1: NUMBER AND OPERATION				
Goal 1.1: Understand and use numbers.				
By the end of 6th Grade, the student will be able to:				
1.1.1	Read, write, compare, and order whole numbers, fractions, and decimals. (317.01.a)	7, 8 SB: 2-1 to 2-4	10, 46, 49-51 SB: 13-1, 22-1, 22-2, 24-1 to 24-4	
1.1.2	Explain the use of fractions and decimals and their interrelationship. (317.01.b)		49-51 SB: 24-1 to 24-4	
1.1.3	Convert between decimals and fractions. (317.01.b)		47 SB: 25-1, 25-2	
1.1.4	Compare magnitudes and relative magnitudes of real numbers, including whole numbers, fractions, and decimals. (317.01.d)	8 SB: 2-4	10, 11, 18, 24, 49-51	
1.1.5	Apply number theory concepts (prime, composite, prime factorization) and identify common factors, common multiples. (317.01.e)	13-18 SB: 4-1 to 4-6		
1.1.6	Describe the use of integers in real-world situations. (317.0.f)	63-69 SB: 59-1 to 59-7		

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1.1.7	Use appropriate vocabulary.			
	Goal 1.2: Perform computations accurately.			
	By the end of 6th Grade, the student will be able to:			
1.2.1	Add, subtract, multiply, and divide whole numbers and decimals. (317.02.a, 317.02.b)	23-26, 31-48 SB: 6-1 to 6-3, 7-1 to 7-4, 8-1 to 8-7, 9-1 to 9-5, 10-1 to 10-7	54-63 SB: 26-1 to 26-4, 27-1 to 27-6, 28-1 to 28-7	
1.2.2	Add and subtract fractions with unlike denominators and simplify as necessary. (317.02.c)		19-23 SB: 17-1 to 17-4, 18-1 to 18-4	
1.2.3	Recall basic multiplication and division facts from 12 x 12 Times Table. (317.02.d)			
1.2.4	Evaluate numerical expressions with whole numbers using the order of operations (excluding exponents). (317.02.e)	SB: 5-4, 5-6, 5-8		
1.2.5	Multiply and divide simple fractions. (317.02.g)		28-34 SB: 19-1 to 19-5, 20-1 to 20-5	
1.2.6	Select and use an appropriate method of computation from mental math, paper and pencil, calculator or combination of the three. (317.02.h)			
1.2.7	Use a variety of strategies to solve real life problems. (318.01.a)		35, 36 SB: 45-1 to 45-15	
1.2.8	Solve problems using the 4-step process of problem solving (explore, plan, solve, and examine). (318.01.b)	29, 30, 49, 53-58 SB: 45-1 to 45-15		

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1.2.9	Use appropriate vocabulary and notations. (317.02.l)	Glossary and vocabulary words throughout	Glossary and vocabulary words throughout	Glossary and vocabulary words throughout
	Goal 1.3: Estimate and judge reasonableness of results.			
	By the end of 6th Grade, the student will be able to:			
1.3.1	Estimate to predict computation results. (317.03.a)	27, 28, 51, 52 SB: 49-1, 49-2, 50-1 to 50-3	25, 27 SB: 18-3, 18-4	
1.3.2	Explain when estimation is appropriate. (317.03.b)			
1.3.3	Identify whether a given estimate is an overestimate or underestimate. (317.03.c)	29 SB: 45-8		
1.3.4	Formulate conjectures and discuss why students must be or seem to be true. (318.02.c)			
1.3.5	Use appropriate vocabulary. (317.03.d)	Glossary and vocabulary words throughout	Glossary and vocabulary words throughout	Glossary and vocabulary words throughout
	STANDARD 2: CONCEPTS AND PRINCIPLES OF MEASUREMENT			
	Goal 1.2: Understand and use customary and metric measurements.			
	By the end of 6th Grade, the student will be able to:			
2.1.1	Select and use appropriate units and tools to make formal measurements in both systems. (319.01.a)			29-37 SB: 36-1 to 36-7

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2.1.2	Apply estimation of measurement to real-world and content problems using actual measuring devices. (319.01.b)			34, 35 SB: 41-1, 41-2
2.1.3	Explain the differences between perimeter and area. (319.01.c)			40-43, 50 SB: 38-1 to 38-5
2.1.4	Solve problems involving time, length, weight/mass, and temperature. (319.01.d)			28-39 SB: 36-1 to 36-7
2.1.5	Convert unit of measurement within each system in one-step problems (e.g. quarts to gallons and gallons to quarts). (319.01.e)			34-37 SB: 41-1, 41-2, 42-1, 42-2
2.1.6	Apply understanding of relationships to solve real-world problems related to elapsed time. (319.01.f)			28 SB: 40-1, 40-2
2.1.7	Use given formulas for perimeter and area of triangles and parallelograms, including rectangles, rhombi, and squares, and circumference and area of circles. (321.01.e)			40-51 SB: 38-1 to 38-13
2.1.8	Use appropriate vocabulary and notations. (319.01.g)	Glossary and vocabulary words throughout	Glossary and vocabulary words throughout	Glossary and vocabulary words throughout
	Goal 2.2: Apply the concepts of rates, ratios, and proportions.			
	By the end of 6th Grade, the student will be able to:			
2.2.1	Identify and write ratios and scales. (319.03.a)			56-61 SB: 52-1 to 52-3
	Goal 2.3: Apply dimensional analysis.			
	No objectives at this grade level.			

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	STANDARD 3: CONCEPTS AND LANGUAGE OF ALGEBRA AND FUNCTIONS			
	Goal 3.1: Use algebraic symbolism as a tool to represent mathematical relationships.			
	By the end of 6th Grade, the student will be able to:			
3.1.1	Discuss the meaning and use of variables in simple expressions and equations. (320.01.a)	70		58, 59
3.1.2	Translate simple word statements into algebraic equations. (320.01.b)	50, 70-72 SB: 56-1 to 56-5		
3.1.3	Read and use symbols of "<," ">," and "=" to express relationships. (320.01.c)	7 SB: 2-1 to 2-4		
	Goal 3.2: Evaluate algebraic expressions.			
	By the end of 6th Grade, the student will be able to:			
3.2.1	Use the following properties in evaluating numerical expressions: commutative, associative, identity, zero, inverse, and distributive. (320.02.a)	19-22 SB: 5-1 to 5-8		
3.2.2	Evaluate simple algebraic expressions using substitution.			42, 46, 47 SB: 38-3, 38-6, 38-7, 38-10
	Goal 3.3: Solve algebraic equations and inequalities.			
	By the end of 6th Grade, the student will be able to:			
3.3.1	Solve one-step equations with whole numbers. (320.03.a)	50, 70-72 SB: 56-1 to 56-5		

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	Goal 3.4: Understand the concept of functions.			
	By the end of 6th Grade, the student will be able to:			
3.4.1	Extend simple patterns and state a rule (function) that generates the pattern using whole numbers, decimals, and fractions as inputs. (323.01.a)	73-76 SB: 44-1 to 44-6		21 SB: 44-1, 44-2
3.4.2	Describe and extend patterns by using manipulatives and pictorial representations. (323.01.b)	73-76 SB: 44-1 to 44-6	50 SB: 24-1 to 4-4	
3.4.3	Use mathematical models to show change in real context. (323.01.c)			51
3.4.4	Use appropriate vocabulary. (323.01.d)	Glossary and vocabulary words throughout	Glossary and vocabulary words throughout	Glossary and vocabulary words throughout
	Goal 3.5: Represent equations, inequalities and functions in a variety of formats.			
	No objective at this grade level.			
	Goal 3.6: Apply functions to a variety of problems.			
	By the end of 6th Grade, the student will be able to:			
3.6.1	Use patterns and functions to represent and solve simple problems.	73-76 SB: 44-1 to 44-6		
	STANDARD 4: CONCEPTS AND PRINCIPLES OF GEOMETRY			
	Goal 4.1: Apply concepts of size, shape, and spatial relationships.			
	By the end of 6th Grade, the student will be able to:			

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4.1.1	Describe and classify relationships among types of one-, two- and three-dimensional geometric figures using their defining properties. (321.01.a) Draw and measure various angles and shapes using appropriate tools. (321.01.b)			7-12 SB: 34-1 to 34-10
4.1.2	Draw and measure various angles and shapes using appropriate tools. (321.01.b)			6, 40-51 SB: 37-1 to 37-3, 38-1 to 38-13
4.1.3	Apply fundamental concepts, properties, and relationships among points, lines, angles, and shapes. (321.01.c)			2-12 SB: 31-1 to 34-10
4.1.4	Identify congruence, similarities, and symmetry of shapes. (321.01.d)			17-19 SB: 60-1 to 60-6
4.1.5	Discuss the relationship between two- and three-dimensional objects. (321.01.f)			11
4.1.6	Describe reflections, translations, and rotations on various shapes. (321.01.g)			20 SB: 60-5, 60-6
4.1.7	Use appropriate vocabulary and notations. (323.01.h)	Glossary and vocabulary words throughout	Glossary and vocabulary words throughout	Glossary and vocabulary words throughout
	Goal 4.2: Apply the geometry of right triangles.			
	No objective at this grade level.			
	Goal 4.3: Apply graphing in two dimensions.			
	By the end of 6th Grade, the student will be able to:			
4.3.1	Identify and plot points in the first quadrant on a coordinate plane. (321.02.a)			15, 16 SB: 43-1

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	STANDARD 5: DATA ANALYSIS, PROBABILITY, AND STATISTICS			
	Goal 5.1: Understand data analysis.			
	By the end of 6th Grade, the student will be able to:			
5.1.1	Read and interpret tables, charts and graphs, including line graphs, bar graphs, frequency line or line plot, and circle graph. (322.01.a)			66-76 SB: 47-1 to 48-5
5.1.2	Explain and justify stated conclusions drawn from tables, charts, and graphs. (322.01.b)			
5.1.3	Use appropriate vocabulary and notations. (322.01.c)	Glossary and vocabulary words throughout	Glossary and vocabulary words throughout	Glossary and vocabulary words throughout
	5.2: Collect, organize, and display data.			
	By the end of 6th Grade, the student will be able to:			
5.21	Collect, organize, and display the data with appropriate notation in tables, charts, and graphs, including line graphs, bar graphs, and frequency lines or line plots. (322.02.a)			66-76 SB: 47-1 to 48-5
	Goal 5.3: Apply simple statistical measurements.			
	By the end of 6th Grade, the student will be able to:			
5.3.1	Find measures of central tendency - mean, median, and mode - with simple sets of data. (322.03.a)			65 SB: 46-1

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5.3.2	Calculate the range of a set of data. (322.03.b)			65 SB: 46-1
	Goal 5.4: Understand basic concepts of probability.			
	By the end of 6th Grade, the student will be able to:			
5.4.1	Predict, perform, and record results of simple probability experiments. (322.04.a)		73-75 SB: 57-1 to 57-5	
5.4.2	Use the language of probability. (322.04.b)		73-75 SB: 57-1 to 57-5	
	Goal 5.5: Make predictions or decisions based on data.			
	By the end of 6th Grade, the student will be able to:			
5.5.1	Make predictions based on information. (318.01.c)		73-75	