Math Teachers Press, Inc.

IDAHO ACHIEVEMENT STANDARDS CORRELATED TO *MOVING WITH MATH® MIDDLE/HIGH (MH) GRADE 8*

	MH1 Number Sense, Reasoning & Data Student Book Skill Builders (SB)	MH2 Fractions & Decimals Student Book Skill Builders (SB)	MH3 Percent & Probability Student Book Skill Builders (SB)	MH4 Geometry & Measurement Student Book Skill Builders (SB)	MH5 Algebra Student Book Skill Builders (SB)
STANDARD 1: NUMBER AND OPERATION					
Goal 1.1: Understand and use numbers.					
1.1.1 Read, write, compare, over, and place on a number line rational numbers, including integers, fractions, decimals, and percents, and absolute values. (337.01.a)	2, 3 **SB:** 4-1, 4-4	2, 4, 5, 9, 11, 43-45, 47 **SB:** 11-1,11-2, 11-4, 18-3, 18-4	14, 20		
1.1.2 Use rational numbers, including percents and ratios, and π (pi) to solve problems. (337.01.b)		**SB:** 46-1, 65-1		63 **SB:** 39-1	
1.1.3 Convert between standard form, scientific notation, and exponential form. (337.01.c)	22, 28-30 **SB:** 6-1, 57-1, 57-2				

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1.1.4 Apply number theory concepts (primes, composites, prime factorization, LCM, GCF). (337.01.d)	19-21 **SB:** 3-1, 3-2, 3-4	7, 8, 10 **SB:** 12-1, 12-2			
1.1.5 Locate the position of real numbers on a number line. (337.01.e)	7				
1.1.6 Use appropriate vocabulary.					
Goal 1.2: Perform computations accurately.					
1.2.1 Add, subtract, multiply, and divide rational numbers. (337.02.a)		55, 56 **SB:** 22-1, 22-2, 65-1			27-31 **SB:** 58-7, 58-8
1.2.2 Recall the common equivalent fractions, decimals, and percents of halves, thirds, fourths, fifths. (337.02.b)		5, 52, 53 **SB:** 11-1, 20-2, 20-3	6-14 **SB:** 25-2 to 25-4		
1.2.3 Evaluate numerical expressions with rational numbers using the order of operations. (337.02.c)	14-16 **SB:** 59-1, 59-2				
1.2.4 Evaluate numerical expressions with whole number exponents. (337.02.d)	22, 25, 26, 28 **SB:** 6-1, 69-1				

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1.2.5	Select and use an appropriate method of computation from mental math, paper and pencil, calculator, or a combination of the three. (337.02.e)		64			
1.2.6	Use a variety of strategies including common mathematical formulas to compute problems drawn from real life situations. (338.01.a)			41, 54 **SB:** 28-3, 28-6, 43-3	61-68, 71-76 **SB:** 39-1, 40-1, 40-2, 41-1, 41-2, 55-1, 55-2, 56-1, 62-2, 63-1	
1.2.7	Recognize pertinent information for problem solving.(338.01.b)	46				
1.2.8	Use appropriate vocabulary and notations. (337.02.f)	9, 10				
	Goal 1.3: Estimate and judge reasonableness of results.					
1.3.1	Estimate to predict computation results. (337.03.a)	39, 43 **SB:** Pre-9, 9-1				
1.3.2	Identify when estimation is appropriate and apply to problem solving situations. (337.03.b)	47 **SB:** 44-2				

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1.3.3	Identify whether a given estimate is an overestimate or underestimate. (337.03.c)	38				
1.3.4	Formulate conjectures and justify (short of formal proof) why students must be or seem to be true. (338.02.c)	45 **SB:** 43-8				
1.3.5	Use appropriate vocabulary and notations. (337.03.d)	Glossary and vocabulary words throughout	Glossary and vocabulary words throughout	Glossary and vocabulary words throughout	Glossary and vocabulary words throughout	Glossary and vocabulary words throughout
	STANDARD 2: CONCEPTS AND PRINCIPLES OF MEASUREMENT.					
	Goal 2.1: Understand and use customary and metric measurements.					
2.1.1	Select and use appropriate units and tools to make formal measurements in both systems. (339.01.a)				5, 42-45, 47-55 **SB:** 34-2, 34-3, 36-3, 37-2	
2.1.2	Apply estimation of measurement to real-world and content problems using actual measuring devices. (339.01.b)				46 **SB:** 36-1	

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2.1.3 Compare the differences and relationships among measures of perimeter, area, and volume 9capacity) within both systems. (339.01.c)				49-53, 60 **SB:** 36-3, 38-1	
2.1.4 Apply given formulas for perimeter, circumference, and area of polygons and circles, surface area of rectangular prisms, and volume of rectangular prisms and cylinders. (341.0				60-76 **SB:** 38-1, 39-1, 40-1, 40-2, 41-1, 41-2, 55-1, 55-2, 56-1, 62-2, 63-1	
2.1.5 Solve problems involving time, length, volume (capacity), weight, mass, and temperature. (339.01.d)				41-57 **SB:** 34-1 to 34-3, 35-1, 36-1, 36-3, 37-2	
2.1.6 Convert unit of measurement within each system in problem solving situations. (339.01.e)				43-57 **SB:** 34-2, 35-1, 36-1, 36-3, 37-2	
2.1.7 Use appropriate vocabulary and notations. (339.01.f)					
Goal 2.2: Apply the concepts of rates, ratios, and proportions.					
2.2.1 Use rates, proportions, ratios, and scales in problem solving situations. (339.03.a)			21-27 **SB:** 26-1, 26-2, 46-1	26-28, 31, 32 **SB:** 46-1, 46-3	

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	Goal 2.3: Apply dimensional analysis.					
2.3.1	Compare units and explain their relationship to one another and to real world applications. (339.0.a)				45, 47-57 **SB:** 35-1, 36-3, 37-2	
	STANDARD 3: CONCEPTS AND LANGUAGE OF ALGEBRA AND FUNCTIONS					
	Goal 3.1: Use algebraic symbolism as a tool to represent mathematical relationships.					
3.1.1	Use variables in expressions, equations, and inequalities. (340.01.a)	17, 18 **SB:** 59-3, 59-4				32, 33, 37 **SB:** 59-3
3.1.2	Translate simple word statements and story problems into algebraic expressions and equations. (340.01.b)					34-36, 39, 41-47 **SB:** 1-1, 50-1 to 50-4
3.1.3	Use symbols "<," ">," "=," "≠," "≤," and "≥" to express relationships. (340.01.c)					53-55 **SB:** 50-5

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	Goal 3.2: Evaluate algebraic expressions.					
3.2.1	Identify and use the following properties in evaluating algebraic expressions: commutative, associative, identity, zero, inverse, distributive and substitution. (340.02.a)					49, 50, 58, 59, 70 **SB:** 59-1, 59-2, 59-5
3.2.2	Use the order of operations in evaluating basic algebraic expressions. (340.02.b)	15, 16 **SB:** 59-1, 59-2				51, 52 **SB:** 59-1
3.2.3	Simplify algebraic expressions. (340.02.c)					28-31, 50 **SB:** 59-1, 59-5
	Goal 3.3: Solve algebraic equations and inequalities.					
3.3.1	Solve one- and two-step equations and inequalities. (340.03.a)					41-47 **SB:** 50-2 to 50-4
3.3.2	Match graphical representations with simple linear equations. (340.03.b)					48, 67, 68 **SB:** 60-3
	Goal 3.4: Understand the concept of functions.					

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3.4.1	Extend patterns and identify a rule (function) that generates the pattern using rational numbers. (343.01.a)	31-34 **SB:** 42-2, 42-4				
3.4.2	Use relationships to explain how a change in one quantity may result in a change in another, and identify it as a positive, negative, or no relation. (343.01.b)					60-66
3.4.3	Use appropriate vocabulary and notations. (343.01.c)	Glossary and vocabulary words throughout	Glossary and vocabulary words throughout	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.					
3.5.1	Represent a set of data in a table, as a graph, and as a mathematical relationship. (343.02.a)	63-76 **SB:** 67-1 to 67-3, 68-3, 68-6				
	Goal 3.6: Apply functions to a variety of problems.					
3.6.1	Use patterns and functions to represent and solve problems. (343.03.a)	31-34, 39, 43 **SB:** Pre-9, 9-1, 10-1, 42-2, 42-4				60

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STANDARD 4: CONCEPTS AND PRINCIPLES OF GEOMETRY					
Goal 4.1: Apply concepts of size, shape, and spatial relationships.					
4.1.1 Describe and classify relationships among types of one-, two-, and three-dimensional geometric figures using their defining properties. (341.01.a)				8-11, 36, 37 **SB:** 31-1 to 31-3	
4.1.2 Draw and measure various angles ad shape using appropriate tools. (341.01.b)				5, 17, 18 **SB:** 33-1	
4.1.3 Apply the fundamental concepts, properties, and relationships among points, lines, rays, planes, angles, and shapes. (341.01.c)				6-11 **SB:** 30-2, 31-1 to 31-3	
4.1.4 Identify and apply congruence, similarities, and line symmetry of shapes. (341.01.d)				12, 13, 15, 24, 25 **SB:** 32-2, 32-3, 53-1	
4.1.5 Explain the concept of surface area and volume (capacity). (341.01.f)				49-53 **SB:** 36-3	

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4.1.6	Identify and model the effects of reflections, translations, rotations, and scaling on various shapes. (341.01.g)				14, 16, 31, 32 **SB:** 32-4, 46-3	
4.1.7	Use appropriate vocabulary and notations. (341.01.h)					
	Goal 4.2: Apply the geometry of right triangles.					
	No objectives at this grade level.					
	Goal 4.3: Apply graphing in two dimensions.					
4.3.1	identify and plot points on a coordinate plane. (3341.03.a)	69, 70				61, 62, 64, 67-69 **SB:** 60-1, 60-3 to 60-5
	STANDARD 5: DATA ANALYSIS, PROBABILITY, AND STATISTICS					
	Goal 5.1: Understand data analysis					

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5.1.1 Analyze and interpret tables, charts and graphs, including frequency tables, scatter plots, line graphs, bar graphs, histograms, circle graphs, stem-and-leaf plots, and box-and-whisker plots. (342.01.a)	63-76 **SB:** 67-1 to 67-3, 68-3, 68-6				
5.1.2 Explain and justify conclusions drawn from tables, charts, and graphs. (342.01.b)	74, 75 **SB:** 67-1				
5.1.3 Use appropriate vocabulary and notations. (342.01.c)	Glossary and vocabulary words throughout	Glossary and vocabulary words throughout	Glossary and vocabulary words throughout	Glossary and vocabulary words throughout	Glossary and vocabulary words throughout
Goal 5.2: Collect, organize, and display data.					
5.2.1 Collect, organize, and display data with appropriate notation in tables, charts, and graphs, including scatter plots, line graphs, line plots, bars graphs, histograms, stem-and-leaf plots, and box-and-whisker plots. (342.02.a)	63-76 **SB:** 67-1 to 67-3, 68-3, 68-6				
Goal 5.3: Apply simple statistical measurements.					

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5.3.1	Choose and calculate the appropriate measure of central tendency - mean, median, and mode. (342.03.a)	55-60 SB: 45-3, 45-4, 45-6				
5.3.2	Explain the significance of distribution of data, including range, frequency, gaps, and clusters. (342.03.b)	56				
	Goal 5.4: Understand basic concepts of probability.					
5.4.1	Model situations of probability using simulations. (342.04.a)			61-73 SB: 47-1 to 47-5, 66-1		
5.4.2	Recognize equally likely outcomes. (342.01.c)			61		
5.4.3	Explain that probability ranges form 0% to 100% and identify a situation as having high or low probability.			62, 63 SB: 47-1, 47-2		
5.4.4	Use the language of probability. (342.04.b)			Glossary and vocabulary words throughout		
	Goal 5.5: Make predictions or decisions based on data.					

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5.5.1 Make predictions based on experimental and theoretical probabilities. (342.05.a)			67 , 74 **SB:** 47-4, 47-6		
5.5.2 Conduct statistical experiments and interpret results, suing tables, charts, or graphs. (342.05.c)			74 **SB:** 47-6		
5.5.3 Use appropriate vocabulary and notations. (342.05.b)	Glossary and vocabulary words throughout	Glossary and vocabulary words throughout	Glossary and vocabulary words throughout	Glossary and vocabulary words throughout	Glossary and vocabulary words throughout