



# Math Teachers Press, Inc.

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## NEW YORK STATE LEARNING STANDARDS FOR MATHEMATICS CORRELATED TO *MOVING WITH MATH® INTERMEDIATE/MIDDLE (IM) GRADE 6*

		IM1 <i>Number, Reasoning &amp; Data</i> Student Book Skill Builders (SB)	IM2 <i>Fractions, Decimals &amp; Percent</i> Student Book Skill Builders (SB)	IM3 <i>Geometry, Measurement &amp; Graphing</i> Student Book Skill Builders (SB)
	<b>PROBLEM SOLVING</b>			
	<b>Students will build new mathematical knowledge through problem solving.</b>			
<b>6.PS.1</b>	Know the difference between relevant and irrelevant information when solving problems	29, 53 <b>SB:</b> 45-5, 45-7, 45-9 TO 45-11		39 <b>SB:</b> 45-1, 45-3, 45-4
<b>6.PS.2</b>	Understand that some ways of representing a problem are more efficient than others	54 <b>SB:</b> 45-1,8,13,14	35 <b>SB:</b> 45-1, 45-4	
<b>6.PS.3</b>	Interpret information correctly, identify the problem, and generate possible strategies and solutions	29, 53 <b>SB:</b> 45-5, 45-7, 45-9 to 45-11	26 <b>SB:</b> 45-10	39 <b>SB:</b> 45-1, 45-3, 45-4
	<b>Students will solve problems that arise in mathematics and in other contexts.</b>			
<b>6.PS.4</b>	Act out or model with manipulatives activities involving mathematical content from literature	31 <b>SB:</b> 8-1	3 <b>SB:</b> 11-3	
<b>6.PS.5</b>	Formulate problems and solutions from everyday situations	23-28 <b>SB:</b> 6-1 to 6-3, 7-1 to 7-4, 49-1, 49-2	26, 35 <b>SB:</b> 45-1, 45-4, 45-10	
<b>6.PS.6</b>	Translate from a picture/diagram to a numeric expression		35 <b>SB:</b> 45-1, 45-4	

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<b>6.PS.7</b>	Represent problem situations verbally, numerically, algebraically, and/or graphically	31, 34, 53 <b>SB:</b> 8-1, 45-7, 45-9 to 45-11	32, 35 <b>SB:</b> 45-1, 45-4	39 <b>SB:</b> 45-1, 45-3, 45-4
<b>6.PS.8</b>	Select an appropriate representation of a problem	30, 53 <b>SB:</b> 45-7, 45-9 to 45-11	27, 32, 35 <b>SB:</b> 45-1, 45-3, 45-4	
<b>6.PS.9</b>	Understand the basic language of logic in mathematical situations (and, or, and not)			
	<b>Students will apply and adapt a variety of appropriate strategies to solve problems.</b>			
<b>6.PS.10</b>	Work in collaboration with others to solve problems			
<b>6.PS.11</b>	Translate from a picture/diagram to a number or symbolic expression	31 <b>SB:</b> 8-1	35 <b>SB:</b> 45-1, 45-4	
<b>6.PS.12</b>	Use trial and error and the process of elimination to solve problems	57, 58 <b>SB:</b> 45-3, 45-6, 45-15, 45-17		
<b>6.PS.13</b>	Model problems with pictures/diagrams or physical objects	31, 34, 56 <b>SB:</b> 8-1, 45-4	32, 35 <b>SB:</b> 45-1, 45-4	
<b>6.PS.14</b>	Analyze problems by observing patterns	15, 38, 40, 73-75 <b>SB:</b> 4-1, 4-3, 8-3, 9-4, 44-1 to 44-3, 44-6	4, 7, 63 <b>SB:</b> 11-1, 11-2, 11-6, 27-4, 28-3, 28-7	21, 22 <b>SB:</b> 44-1 to 44-4
<b>6.PS.15</b>	Make organized lists or charts to solve numerical problems	76 <b>SB:</b> 44-5	7	
	<b>Students will monitor and reflect on the process of mathematical problem solving.</b>			
<b>6.PS.16</b>	Discuss with peers to understand a problem solving situation	54 <b>SB:</b> 45-1, 45-8, 45-13, 45-14		

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<b>6.PS.17</b>	Determine what information is needed to solve problems	29, 53 <b>SB:</b> 45-5, 45-7, 45-9 to 45-11		39 <b>SB:</b> 45-1, 45-3, 45-4
<b>6.PS.18</b>	Determine the efficiency of different representations of a problem			
<b>6.PS.19</b>	Differentiate between valid and invalid approaches	54 <b>SB:</b> 45-1, 45-8, 45-13, 45-14	27 <b>SB:</b> 45-3	
<b>6.PS.20</b>	Understand valid counterexamples			
<b>6.PS.21</b>	Explain the methods and reasoning behind the problem solving strategies used	30		
<b>6.PS.22</b>	Discuss whether a solution is reasonable in the context of the original problem	49, 57 <b>SB:</b> 9-3, 10-4, 45-3, 45-17	26 <b>SB:</b> 45-10	
<b>6.PS.23</b>	Verify results of a problem	47 <b>SB:</b> 9-5	26, 65 <b>SB:</b> 45-2, 45-10	
	<b>REASONING AND PROOF</b>			
	<b>Students will recognize reasoning and proof as fundamental aspects of mathematics.</b>			
<b>6.RP.1</b>	Recognize that mathematical ideas can be supported using a variety of strategies			
<b>6.RP.2</b>	Understand that mathematical statements can be supported, using models, facts, and relationships to explain their thinking			
	<b>Students will make and investigate mathematical conjectures.</b>			
<b>6.RP.3</b>	Investigate conjectures, using arguments and appropriate mathematical terms			

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<b>6.RP.4</b>	Make and evaluate conjectures, using a variety of strategies			
	<b>Students will develop and evaluate mathematical arguments and proofs.</b>			
<b>6.RP.5</b>	Justify general claims or conjectures, using manipulatives, models, expressions, and mathematical relationships			
<b>6.RP.6</b>	Develop and explain an argument verbally, numerically, algebraically, and/or graphically			
<b>6.RP.7</b>	Verify claims other students make, using examples and counterexamples when appropriate			
	<b>Students will select and use various types of reasoning and methods of proof.</b>			
<b>6.RP.8</b>	Support an argument through examples/counterexamples and special cases			
<b>6.RP.9</b>	Devise ways to verify results	47 <b>SB:</b> 9-5	26 ,65 <b>SB:</b> 45-2, 45-10	
	<b>COMMUNICATION</b>			
	<b>Students will organize and consolidate their mathematical thinking through communication.</b>			
<b>6.CM.1</b>	Provide an organized thought process that is correct, complete, coherent, and clear	29, 53 <b>SB:</b> 45-5, 45-7, 45-9 to 45-11		
<b>6.CM.2</b>	Explain a rationale for strategy selection	54 <b>SB:</b> 45-1, 45-8, 45-13, 45-14		
<b>6.CM.3</b>	Organize and accurately label work	29, 53, 54		

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	<b>Students will communicate their mathematical thinking coherently and clearly to peers, teachers, and others.</b>			
<b>6.CM.4</b>	Share organized mathematical ideas through the manipulation of objects, numerical tables, drawings, pictures, charts, graphs, tables, diagrams, models, and symbols in written and verbal form			
<b>6.CM.5</b>	Answer clarifying question from others			
	<b>Students will analyze and evaluate the mathematical thinking and strategies of others.</b>			
<b>6.CM.6</b>	Understand mathematical solutions shared by other students			
<b>6.CM.7</b>	Raise questions that elicit, extend, or challenge others' thinking			
<b>6.CM.8</b>	Consider strategies used and solutions found by others in relation to their own work			
	<b>Students will use the language of mathematics to express mathematical ideas precisely.</b>			
<b>6.CM.9</b>	Increase their use of mathematical vocabulary and language when communicating with others			
<b>6.CM.10</b>	Use appropriate vocabulary when describing objects, relationships, mathematical solutions, and rationale			
<b>6.CM.11</b>	Decode and comprehend mathematical visuals and symbols to construct meaning	<b>5 SB: 1-4</b>		

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	<b>CONNECTIONS</b>			
	<b>Students will recognize and use connections among mathematical ideas.</b>			
<b>6.CN.1</b>	Understand and make connections and conjectures in their everyday experiences to mathematical ideas		41, 55, 64, 71 <b>SB:</b> 26-4, 45-12, 53-3	
<b>6.CN.2</b>	Explore and explain the relationship between mathematical ideas			
<b>6.CN.3</b>	Connect and apply mathematical information to solve problems			
	<b>Students will understand how mathematical ideas interconnect and build on one another to produce a coherent whole.</b>			
<b>6.CN.4</b>	Understand multiple representations and how they are related	54 SB: 45-1, 45-8, 45-13, 45-14	41	
<b>6.CN.5</b>	Model situations with objects and representations and be able to draw conclusions			
	<b>Students will recognize and apply mathematics in contexts outside of mathematics.</b>			
<b>6.CN.6</b>	Recognize and provide examples of the presence of mathematics in their daily lives		31, 41, 55, 64, 71 <b>SB:</b> 19-3 to 19-5, 26-4, 45-12, 53-3	
<b>6.CN.7</b>	Apply mathematics to problem situations that develop outside of mathematics	50	31 <b>SB:</b> 19-3 to 19-5	
<b>6.CN.8</b>	Investigate the presence of mathematics in careers and areas of interest		31 <b>SB:</b> 19-3 to 19-5	

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<b>6.CN.9</b>	Recognize and apply mathematics to other disciplines and areas of interest		31 <b>SB:</b> 19-3 to 19-5	
	<b>REPRESENTATION</b>			
	<b>Students will create and use representations to organize, record, and communicate mathematical ideas.</b>			
<b>6.R.1</b>	Use physical objects, drawings, charts, tables, graphs, symbols, equations, or objects created using technology as representations	78 <b>SB:</b> 44-4	37, 38 <b>SB:</b> 45-14, 48-1, 48-2	
<b>6.R.2</b>	Explain, describe, and defend mathematical ideas using representations			
<b>6.R.3</b>	Read, interpret, and extend external models			
<b>6.R.4</b>	Use standard and nonstandard representations with accuracy and detail	5 <b>SB:</b> 1-4	37, 38 <b>SB:</b> 45-14, 48-1, 48-2	
	<b>Students will select, apply, and translate among mathematical representations to solve problems.</b>			
<b>6.R.5</b>	Use representations to explore problem situations	78 <b>SB:</b> 44-4	37, 38 <b>SB:</b> 45-14, 48-1, 48-2	
<b>6.R.6</b>	Investigate relationships between different representations and their impact on a given problem			
	<b>Students will use representations to model and interpret physical, social, and mathematical phenomena.</b>			

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<b>6.R.7</b>	Use mathematics to show and understand physical phenomena (e.g., determine the perimeter of a bulletin board)			
<b>6.R.8</b>	Use mathematics to show and understand social phenomena (e.g. construct tables to organize data showing book sales)			
<b>6.R.9</b>	Use mathematics to show and understand mathematical phenomena (e.g., Find the missing value: $(3 + 4) + 5 = 3 + (4 + \underline{\quad})$ )			
	<b>NUMBER SENSE AND OPERATIONS</b>			
	<b>Students will understand numbers, multiple ways of representing numbers, relationships among numbers, and number systems.</b>			
<b>6.N.1</b>	Read and write whole numbers to trillions	2-4, 6 <b>SB:</b> 1-1 to 1-3, 1-5, 2-1, 2-2		
<b>6.N.2</b>	Define and identify the commutative and associative properties of addition and multiplication	19, 20 <b>SB:</b> 5-1, 5-2		
<b>6.N.3</b>	Define and identify the distributive property of multiplication over addition	21 <b>SB:</b> 5-3, 5-5, 5-7		
<b>6.N.4</b>	Define and identify the identity and inverse properties of addition and multiplication	67 <b>SB:</b> 59-4		
<b>6.N.5</b>	Define and identify the zero property of multiplication			
<b>6.N.6</b>	Understand the concept of rate			59 <b>SB:</b> 52-3
<b>6.N.7</b>	Express equivalent ratios as a proportion		9 <b>SB:</b> 12-3, 12-8, 12-9	56-58 <b>SB:</b> 52-1, 52-2



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<b>6.N.8</b>	Distinguish the difference between rate and ratio			56, 57 <b>SB:</b> 52-1
<b>6.N.9</b>	Solve proportions using equivalent fractions		9 <b>SB:</b> 12-3, 12-8, 12-9	57, 58 <b>SB:</b> 52-2
<b>6.N.10</b>	Verify the proportionality using the product of the means equals the product of the extremes		9 <b>SB:</b> 12-3, 12-8, 12-9	57, 58 <b>SB:</b> 52-2
<b>6.N.11</b>	Read, write and identify percents of a whole (0% to 100%)		42, 43, 67 <b>SB:</b> 21-1, 21-3, 29-1 to 29-3	
<b>6.N.12</b>	Solve percent problems involving percent, rate, and base			59 <b>SB:</b> 52-3
<b>6.N.13</b>	Define absolute value and determine the absolute value of rational numbers (including positive and negative)			
<b>6.N.14</b>	Locate rational numbers on a number line (including positive and negative)	64, 65, 68, 69 <b>SB:</b> 59-2, 59-5 to 59-7	5 <b>SB:</b> 11-4	
<b>6.N.15</b>	Order rational numbers (including positive and negative)	7, 8, 66 <b>SB:</b> 2-3, 2-4, 59-3	10, 11, 49, 51, 72 <b>SB:</b> 13-1, 13-2, 13-5, 24-1 to 24-4	
	<b>Students will understand meanings of operations and procedures, and how they relate to one another.</b>			
<b>6.N.16</b>	Add and subtract fractions with unlike denominators		19-21 <b>SB:</b> 13-4, 17-1 to 17-4	
<b>6.N.17</b>	Multiply and divide fractions with unlike denominators		28, 31, 33, 34 <b>SB:</b> 19-1 to 19-5, 20- to 20-5	
<b>6.N.18</b>	Add, subtract, multiply, and divide mixed numbers with unlike denominators		22, 23 <b>SB:</b> 18-1, 18-2	

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<b>6.N.19</b>	Identify the multiplicative inverse (reciprocal) of a number		<b>SB:</b> 20-1	
<b>6.N.20</b>	Represent fractions as terminating or repeating decimals		47, 50 <b>SB:</b> 25-1, 25-2, 25-4	
<b>6.N.21</b>	Find multiple representations of rational numbers (fractions, decimals, and percents 0 to 100)		2, 6, 13, 42, 47, 67-70 <b>SB:</b> 14-2, 21-1 to 21-3, 22-1, 22-2, 23-1 to 23-4, 25-1, 25-2, 25-4, 29-1 to 29-3, 30-1 to 30-3, 30-5, 48-3, 53-1, 53-2	
<b>6.N.22</b>	Evaluate numerical expressions using order of operations (may include exponents of two and three)	22 <b>SB:</b> 5-4, 5-6 to 5-8		
<b>6.N.23</b>	Represent repeated multiplication in exponential form	16, 17 <b>SB:</b> 4-4		
<b>6.N.24</b>	Represent exponential form as repeated multiplication	16, 17 <b>SB:</b> 4-4		
<b>6.N.25</b>	Evaluate expressions having exponents where the power is an exponent of one, two, or three	16, 17 <b>SB:</b> 4-4		
	<b>Students will compute accurately and make reasonable estimates.</b>			
<b>6.N.26</b>	Estimate a percent of quantity (0% to 100%)		70	
<b>6.N.27</b>	Justify the reasonableness of answers using estimation (including rounding)	9-11, 27, 48, 49, 51, 52 <b>SB:</b> 3-1 to 3-4, 9-3, 10-4, 10-6, 49-1, 50-1 to 50-3	24, 25, 52, 53, 56 <b>SB:</b> 13-3, 18-3, 18-4, 45-5, 51-1 to 51-4	
	<b>ALGEBRA</b>			

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	<b>Students will represent and analyze algebraically a wide variety of problem solving situations.</b>			
<b>6.A.1</b>	Translate two-step verbal expressions into algebraic expressions	55 <b>SB:</b> 45-2, 45-12, 45-16	36, 66 <b>SB:</b> 45-6 to 45-9, 45-11, 45-13	
	<b>Students will perform algebraic procedures accurately.</b>			
<b>6.A.2</b>	Use substitution to evaluate algebraic expressions (may include exponents of one, two and three)	70-72 <b>SB:</b> 56-1 to 56-3, 56-5		
<b>6.A.3</b>	Translate two-step verbal sentences into algebraic equations	55 <b>SB:</b> 45-2, 45-12, 45-16		
<b>6.A.4</b>	Solve and explain two-step equations involving whole numbers using inverse operations			
<b>6.A.5</b>	Solve simple proportions within context		9 <b>SB:</b> 12-3, 12-8, 12-9	
<b>6.A.6</b>	Evaluate formulas for given input values (circumference, area, volume distance, temperature, interest, etc.)			50, 51 <b>SB:</b> 38-8, 38-11
	<b>GEOMETRY</b>			
	<b>Students will use visualization and spatial reasoning to analyze characteristics and properties of geometric shapes.</b>			
<b>6.G.1</b>	Calculate the length of corresponding sides of similar triangles, using proportional reasoning			8, 18, 19, 62-64 <b>SB:</b> 34-3, 34-9, 52-6, 60-2, 60-3, 60-6

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<b>6.G.2</b>	Determine the area of triangles and quadrilaterals (squares, rectangles, rhombi, and trapezoids) and develop formulas			9, 43-48, 50, 51 <b>SB:</b> 34-4, 34-5, 34-10, 38-4, 38-6 to 38-12
<b>6.G.3</b>	Use a variety of strategies to find the area of regular and irregular polygons			7, 10, 43-45, 49 <b>SB:</b> 34-1, 34-2, 38-4, 38-5, 38-9, 44-6
<b>6.G.4</b>	Determine the volume of rectangular prisms by counting cubes and develop the formula	17 <b>SB:</b> 4-4		11, 52, 53 <b>SB:</b> 34-6, 34-8, 39-1 to 39-3, 39-5
<b>6.G.5</b>	Identify radius, diameter, chords, and central angles of a circle			13 <b>SB:</b> 35-1
<b>6.G.6</b>	Understand the relationship between the diameter and radius of a circle			13, 14 <b>SB:</b> 35-1, 35-2
<b>6.G.7</b>	Determine the area and circumference of a circle, using the appropriate formula			13 <b>SB:</b> 35-1
<b>6.G.8</b>	Calculate the area of a sector of a circle, given the measure of a central angle and the radius of the circle			6 <b>SB:</b> 37-1 to 37-3
<b>6.G.9</b>	Understand the relationship between the circumference and the diameter of a circle			13 <b>SB:</b> 35-1
	<b>Students will apply coordinate geometry to analyze problem solving situations</b>			
<b>6.G.10</b>	Identify and plot points in all four quadrants	77 <b>SB:</b> 43-1		15, 16 <b>SB:</b> 43-1
<b>6.G.11</b>	Calculate the area of basic polygons drawn on a coordinate plane (rectangles and shapes composed of rectangles having sides with integer lengths)			

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	<b>MEASUREMENT</b>			
	<b>Students will determine what can be measured and how, using appropriate methods and formulas.</b>			
<b>6.M.1</b>	Measure capacity and calculate volume of a rectangular prism			36 <b>SB:</b> 42-1
<b>6.M.2</b>	Identify customary units of capacity (cups, pints, quarts, and gallons)			36 <b>SB:</b> 42-1
<b>6.M.3</b>	Identify equivalent customary units of capacity (cups to pints, pints to quarts, and quarts to gallons)			36 <b>SB:</b> 42-1
<b>6.M.4</b>	Identify metric units of capacity (liter and milliliter)			37 <b>SB:</b> 42-2, 42-5
<b>6.M.5</b>	identify equivalent metric units of capacity (milliliter to liter and liter to milliliter)			37 <b>SB:</b> 42-2, 42-5
<b>6.M.6</b>	Determine the tool and technique to measure with an appropriate level of precision: capacity			36, 37 <b>SB:</b> 42-1, 42-2, 42-5
	<b>Students will develop strategies for estimating measurements.</b>			
<b>6.M.7</b>	Estimate volume, area, and circumference (see figures identified in geometry strand)			40-42 <b>SB:</b> 38-1 to 38-3, 38-13
<b>6.M.8</b>	Justify the reasonableness of estimates			
<b>6.M.9</b>	Determine personal references for capacity			
	<b>STATISTICS AND PROBABILITY</b>			
	<b>Students will collect, organize, display, and analyze data.</b>			

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<b>6.S.1</b>	Develop the concept of sampling when collecting data from a population and decide the best method to collect data for a particular question	61 <b>SB:</b> 46-5		67 <b>SB:</b> 47-4
<b>6.S.2</b>	Record data in a frequency table			66, 71 <b>SB:</b> 47-3
<b>6.S.3</b>	Construct Venn diagrams to sort data			
<b>6.S.4</b>	Determine and justify the most appropriate graph to display a given set of data (pictograph, bar graph, line graph, histogram, or circle graph)			66, 68-76 <b>SB:</b> 44-5, 47-1 to 47-3, 47-5, 47-6, 48-2 to 48-5
<b>6.S.5</b>	Determine the mean, mode and median for a given set of data.	59, 60, 62 <b>SB:</b> 46-1 to 46-4		65 <b>SB:</b> 46-1
<b>6.S.6</b>	Determine the range for a given set of data	60, 62 <b>SB:</b> 46-3, 46-4		65 <b>SB:</b> 46-1
<b>6.S.7</b>	Read and interpret graphs			66-76
	<b>Students will make predictions that are based upon data analysis.</b>			
<b>6.S.8</b>	Justify predictions made from data			
	<b>Students will understand and apply concepts of probability.</b>			
<b>6.S.9</b>	List possible outcomes for compound events		73-75, 78 <b>SB:</b> 57-1 to 57-5, 58-1, 58-4	
<b>6.S.10</b>	Determine the probability of dependent events		73-75 <b>SB:</b> 57-1 to 57-5	

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<b>6.S.11</b>	Determine the number of possible outcomes for a compound event by using the fundamental counting principle and use this to determine the probabilities of events when the outcomes have equal probability		76,77,SB:58-2,3	