



# Pennsylvania Assessment Anchors and Eligible Content, Grade 6, Correlated to Pennsylvania Math Connects, Course 1

Lessons in which the assessment anchor and/or eligible content is the primary focus are indicated in **bold**.

Assessment Anchors and Eligible Content		Lesson(s)	Page Number(s)
<b>M6.A Number and Operations</b>			
<b>ANCHOR M6.A.1 Demonstrate an understanding of numbers, ways of representing numbers, relationships among numbers and number systems.</b>			
<b>M6.A.1.1</b>	Express numbers in equivalent forms.	<b>3-1, Explore 4-2, 4-2, 4-3, 4-7, 4-8, 6-1, 7-1, Ch. 7 RSP, 7-3</b>	<b>138-141, 202-212, 225-232, 314-319, 365-369, 376, 377-380</b>
<b>M6.A.1.1.1</b>	Represent common percents as fractions and/or decimals (e.g., $25\% = \frac{1}{4} = .25$ ) – common percents are 1%, 10%, 25%, 50%, 75%, 100%.	<b>7-1, 7-3</b>	<b>365-369, 377-380</b>
<b>M6.A.1.1.2</b>	Convert between fractions and decimals and/or differentiate between a terminating decimal and a repeating decimal.	<b>4-7, 4-8</b>	<b>225-232</b>
<b>M6.A.1.1.3</b>	Represent a number in exponential form (e.g., $10 \times 10 \times 10 = 10^3$ ).	<b>1-3</b>	<b>32-36</b>
<b>M6.A.1.1.4</b>	Represent a mixed number as an improper fraction.	<b>4-3</b>	<b>209-212</b>
<b>M6.A.1.2</b>	Compare quantities and/or magnitudes of numbers.	<b>3-2, 4-6, 6-1, 6-3, 11-1, CSB3</b>	<b>142-145, 220-224, 314-319, 329-333, 572-575, 740</b>
<b>M6.A.1.2.1</b>	Compare and/or order whole numbers, mixed numbers, fractions and/or decimals (do not mix fractions and decimals – decimals through thousandths).	<b>3-2, 4-6, 6-1, 6-3, 11-1, CSB3</b>	<b>142-145, 220-224, 329-333, 572-575, 740</b>
<b>M6.A.1.3</b>	Apply number theory concepts (i.e., factors, multiples).	<b>1-2, Ch. 4 RSP, 4-1, Explore 4-2, 4-2, 4-5, Explore 5-4, 5-4, 5-5</b>	<b>28-31, 196-208, 216-219, 261-268, 270-274</b>
<b>M6.A.1.3.1</b>	Find the Greatest Common Factor (GCF) of two numbers (through 50) and/or use the GCF to simplify fractions.	<b>4-1, Explore 4-2, 4-2</b>	<b>197-208</b>
<b>M6.A.1.3.2</b>	Find the Least Common Multiple (LCM) of two numbers (through 50) and/or use the LCM to find the common denominator of two fractions.	<b>4-5, Explore 5-4, 5-4, 5-5</b>	<b>216-219, 261-268, 270-274</b>
<b>M6.A.1.3.3</b>	Use divisibility rules for 2, 3, 5 and/or 10 to draw conclusions and/or solve problems.	<b>CSB1</b>	<b>736-737</b>
<b>M6.A.1.4</b>	Use or develop models to represent percents.	<b>Explore 7-1, 7-1, 7-2, 7-3</b>	<b>364-375, 377-380</b>
<b>M6.A.1.4.1</b>	Model percents (through 100%) using drawings, graphs and/or sets (e.g., circle graph, base ten blocks, etc)	<b>Explore 7-1, 7-1, 7-2, 7-3</b>	<b>364-375, 377-380</b>

Assessment Anchors and Eligible Content		Lesson(s)	Page Number(s)
<b>ANCHOR M6.A.2 Understand the meanings of operations, use operations and understand how they relate to each other.</b>			
<b>M6.A.2.1</b>	Select and/or use operations to simplify or solve problems.	<i>Used throughout the text.</i> For example, 1-1, 3-10, 8-5, 12-1	<i>Used throughout the text.</i> For example, 24-27, 184-185, 442-443, 632-635
<b>M6.A.2.1.1</b>	Complete equations by using the following properties: associative, commutative, distributive and identity.	<b>Explore 12-1, 12-1, 12-3, 12-4, 12-5, CSB10</b>	<b>630-635, 644-648, 651-654, 657-660, 748</b>
<b>ANCHOR M6.A.3 Compute accurately and fluently and make reasonable estimates.</b>			
<b>M6.A.3.1</b>	Apply estimation strategies to a variety of problems.	<i>Used throughout the text.</i> For example, 3-3, 3-4, Explore 5-1, 5-1, 5-6, 7-7, 7-8	<i>Used throughout the text.</i> For example, 146-154, 248-253, 276-279, 399-405
<b>M6.A.3.1.1</b>	Use estimation to solve problems involving whole numbers and decimals (up to 2-digit divisors and 4 operations).	<i>Used throughout the text.</i> For example, 3-3, 3-4, Explore 5-1, 5-1, 5-6, 7-7, 7-8	<i>Used throughout the text.</i> For example, 146-154, 248-253, 276-279, 399-405
<b>M6.A.3.2</b>	Solve problems with and without the use of a calculator.	<i>Used throughout the text.</i> For example, 3-5, 3-9, 5-3, 5-4	<i>Used throughout the text.</i> For example, 156-160, 179-183, 256-260, 263-268
<b>M6.A.3.2.1</b>	Solve problems involving operations (+, −, ×, ÷) with whole numbers, decimals (through thousandths) and fractions (avoid complicated LCDs) – straight computation or word problems.	<b>1-4, 1-7, Ch. 1 RSP, Ch. 2 RSP, Explore 3-5, 3-5, Explore 3-6, 3-6, Explore 3-7, 3-7, 3-8, Explore 3-9, 3-9, 4-4, 5-3, Explore 5-4, 5-4, Ch. 5 RSP, 5-5, Explore 5-7, 5-7, 5-8, Explore 5-9, 5-9, 5-10, 9-6, Explore 11-2, 11-2, 11-3, 11-4, 11-5, 11-6, CSB5, CSB6</b>	<b>37-40, 54-56, 80, 155, 156-160, 162, 163-166, 167-168, 169-176, 177-178, 179-183, 214-215, 256-260, 261-262, 263-274, 280-281, 282-290, 291-292, 293-301, 500-501, 576-590, 592-593, 594-598, 743, 744</b>
<b>M6.B Measurement</b>			
<b>ANCHOR M6.B.1 Demonstrate an understanding of measurable attributes of objects and figures, and the units, systems and processes of measurement.</b>			
<b>M6.B.1.1</b>	Compare and/or determine elapsed time.	<b>8-7</b>	<b>450-454</b>
<b>M6.B.1.1.1</b>	Determine and/or compare elapsed time to the minute (time may cross AM to PM or more than one day).	<b>8-7</b>	<b>450-454</b>

LA = Looking Ahead; CSB = Concepts and Skills Bank; RSP = Reading to Solve Problems

Assessment Anchors and Eligible Content		Lesson(s)	Page Number(s)
<b>ANCHOR M6.B.2 Apply appropriate techniques, tools and formulas to determine measurements.</b>			
<b>M6.B.2.1</b>	Choose or use appropriate tools and/or units to determine measurements within the same system.	<b>8-1, 8-2, Explore 8-3, 8-3, 8-4, 8-6, 8-7, 8-8, Extend 8-8, 9-1, Extend 10-7</b>	<b>418-441, 445-460</b>
<b>M6.B.2.1.1</b>	Use or read a ruler to measure to the nearest $\frac{1}{16}$ inch or millimeter.	<b>8-1, Explore 8-3, 8-3, Pennsylvania: Map for Success</b>	<b>418-423, 430-436, Pennsylvania: Map for Success</b>
<b>M6.B.2.1.2</b>	Choose the more precise measurement of a given object (e.g., smaller measurements are more precise).	<b>8-1, 8-2, 8-3, 8-4, Extend 8-8, Pennsylvania: Map for Success</b>	<b>418-429, 432-441, 459-460, Pennsylvania: Map for Success</b>
<b>M6.B.2.1.3</b>	Measure angles using a protractor up to $180^\circ$ – protractor must be drawn – one side of the angle to be measured should line up with the straight edge of the protractor.	<b>9-1, 9-2</b>	<b>470-473, 474-478</b>
<b>M6.B.2.2</b>	Solve problems involving length, perimeter, area and/or volume of geometric figures.	<b>1-9, Extend 6-1, 10-1, Explore 10-2, 10-2, 10-3, Explore 10-4, 10-4, 10-6, Explore 10-7, 10-7, Extend 10-7, LA 4, LA 5, CSB13</b>	<b>63-67, 320-321, 522-532, 534-544, 548-560, LA 15-LA 24, 753-754</b>
<b>M6.B.2.2.1</b>	Find the perimeter of any polygon (may include regular polygons where only the measure of one side is given – same units throughout).	<b>Explore 10-1, 10-1, CSB13</b>	<b>520-521, 522-526, 753-754</b>
<b>M6.B.2.3</b>	Identify, label, and/or list properties of angles or triangles.	<b>9-1, 9-2, 9-3, Explore 9-4, 9-4, Explore 9-5, LA 3</b>	<b>470-491, 493, LA 10-LA 14</b>
<b>M6.B.2.3.1</b>	Define, label and/or identify right, straight, acute and obtuse angles.	<b>9-1</b>	<b>470-473</b>
<b>M6.C Geometry</b>			
<b>ANCHOR M6.C.1 Analyze characteristics and properties of two- and three-dimensional geometric shapes and demonstrate understanding of geometric relationships.</b>			
<b>M6.C.1.1</b>	Define and/or use basic properties of triangles, quadrilaterals, pentagons, hexagons, heptagons, octagons, nonagons, decagons and circles.	<b>9-4, 9-5, 9-7, Extend 9-7, 10-2</b>	<b>486-491, 494-499, 502-508, 528-533</b>
<b>M6.C.1.1.1</b>	Identify, classify and/or compare polygons (up to ten sides).	<b>9-4, 9-5, Extend 9-7, Pennsylvania: Map for Success</b>	<b>486-499, 508, Pennsylvania: Map for Success</b>
<b>M6.C.1.1.2</b>	Identify and/or describe properties of all types of triangles (scalene, equilateral, isosceles, right, acute, obtuse).	<b>Explore 9-4, 9-4</b>	<b>485-491</b>
<b>M6.C.1.1.3</b>	Identify and/or determine the measure of the diameter and/or radius of a circle (when one or the other is given).	<b>Explore 10-2, 10-2</b>	<b>527, 528-533</b>
<b>M6.C.1.1.4</b>	Identify and/or use the total number of degrees in a triangle, quadrilateral and/or circle.	<b>7-2, 9-1, Explore 9-4, 9-4, Explore 9-5, 9-5, LA 4</b>	<b>370-375, 470, 485-491, 493-499, LA 15-LA 19</b>

<b>Assessment Anchors and Eligible Content</b>		<b>Lesson(s)</b>	<b>Page Number(s)</b>
<b>M6.C.1.2</b>	Represent and/or use concepts and relationships of lines and line segments.	9-4, 9-5, <b>LA 3, CSB12, CSB14</b>	488, 495, <b>LA10-LA14, 751-752, 755-756</b>
<b>M6.C.1.2.1</b>	Identify, describe and/or label parallel, perpendicular or intersecting lines.	<b>9-5, LA 3</b>	<b>495, LA10-LA14</b>
<b>M6.C.1.2.2</b>	Identify, draw and/or label points, planes, lines, line segments, rays, angles and vertices.	<b>9-1, 9-2, 9-3, CSB12, CSB14</b>	<b>470-484, 751-752, 755-756</b>
<b>ANCHOR M6.C.2 Identify and/or apply concepts of transformations or symmetry.</b> <i>Not Addressed at Grade 6</i>			
<b>ANCHOR M6.C.3 Locate points or describe relationships using the coordinate plane.</b>			
<b>M6.C.3.1</b>	Identify, plot or match points given an ordered pair.	<b>4-9, Extend 6-7, 11-7, 11-8, 11-9, 11-10</b>	<b>233-237, 354, 599-619</b>
<b>M6.C.3.1.1</b>	Plot, locate or identify points in Quadrant I and/or on the x and y axes with intervals of 1, 2, 5 or 10 units – up to a 200 by 200 grid. Points may be in-between lines.	<b>4-9, Extend 6-7, 11-7, 11-8, 11-9, 11-10</b>	<b>233-237, 354, 599-619</b>
<b>M6.D Algebraic Concepts</b>			
<b>ANCHOR M6.D.1 Demonstrate an understanding of patterns, relations and functions.</b>			
<b>M6.D.1.1</b>	Create or extend patterns.	<b>1-6, 6-2, Extend 6-2, 6-5, 6-6</b>	<b>49-53, 322-328, 341-348</b>
<b>M6.D.1.1.1</b>	Create, extend or find a missing element in a pattern displayed in a table, chart or graph (pattern must show at least 3 repetitions – may use up to 2 operations with whole numbers).	<b>1-6, 6-2, Extend 6-2, 6-5, 6-6</b>	<b>49-53, 322-328, 341-348</b>
<b>M6.D.1.2</b>	Analyze patterns.	<b>Explore 1-6, 1-6, 6-2, Extend 6-2, 6-5, 6-6</b>	<b>47-53, 322-328, 341-348</b>
<b>M6.D.1.2.1</b>	Determine a rule based on a pattern or illustrate a pattern based on a given rule (displayed on a table, chart or graph; pattern must show at least 3 repetitions).	<b>Explore 1-6, 1-6, 6-6</b>	<b>47-53, 343-348</b>
<b>ANCHOR M6.D.2 Represent and/or analyze mathematical situations and structures using algebraic symbols, words, tables, and graphs.</b>			
<b>M6.D.2.1</b>	Select and/or use appropriate strategies to solve number sentences.	<b>1-8, 6-4, Explore 12-3, 12-3, Explore 12-4, 12-4, Extend 12-4, 12-5</b>	<b>57-60, 334-339, 642-648, 650-655, 657-660</b>
<b>M6.D.2.1.1</b>	Identify the inverse operation needed to solve a one-step equation.	<b>Explore 12-3, 12-3, Explore 12-4, 12-4, 12-5</b>	<b>642-648, 650-654, 657-660</b>
<b>M6.D.2.1.2</b>	Solve a one-step equation (i.e., using the inverse operation – whole numbers only).	<b>1-8, Explore 12-3, 12-3, Explore 12-4, 12-4, 12-5</b>	<b>57-60, 642-644, 650-654, 657-660</b>

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<b>Assessment Anchors and Eligible Content</b>		<b>Lesson(s)</b>	<b>Page Number(s)</b>
<b>M6.D.2.2</b>	Create and/or interpret expressions or equations that model problem situations.	1-5, Explore 1-9, 6-7, Explore 10-7, Explore 12-1, 12-1, 12-2, Explore 12-3, 12-3, Explore 21-4, 12-4, 12-5	42-46, 61-62, 349-353, 554, 630-648, 650-654, 657-660
<b>M6.D.2.2.1</b>	Match an equation or expression involving one variable, to a verbal math situation (one operation only).	1-5, Explore 1-9, 6-7, Explore 10-7, Explore 12-1, 12-1, 12-2, Explore 12-3, 12-3, Explore 21-4, 12-4, 12-5	42-46, 61-62, 349-353, 554, 630-648, 650-654, 657-660
<b>ANCHOR M6.D.3 Analyze change in various contexts. <i>Not Addressed at Grade 6</i></b>			
<b>ANCHOR M6.D.4 Describe or use models to represent quantitative relationships. <i>Not Addressed at Grade 6</i></b>			
<b>M6.E Data Analysis and Probability</b>			
<b>ANCHOR M6.E.1 Formulate questions that can be addressed with data and/or collect, organize, display, and analyze data.</b>			
<b>M6.E.1.1</b>	Interpret data shown in frequency tables, histograms, circle, bar or double bar graphs, line or double line graphs or line plots.	2-2, Extend 2-2, 2-3, 2-5, 2-6, Extend 2-6, 2-7, 2-8, Extend 2-8, 7-2, LA 6, CSB15	81-91, 96-100, 102-120, 370-375, LA25-LA28, 757-758
<b>M6.E.1.1.1</b>	Analyze data and/or answer questions pertaining to data represented in frequency tables, circle graphs, double bar graphs, double line graphs or line plots (for circle graphs, no computation with percents).	2-2, Extend 2-2, 2-3, 2-5, 2-6, Extend 2-6, 2-7, 2-8, Extend 2-8, 7-2, LA 6, CSB15	81-91, 96-100, 102-120, 370-375, LA25-LA28, 757-758
<b>M6.E.1.1.2</b>	Choose the appropriate representation for a specific set of data (choices should be the same type of graph).	2-2, Extend 2-2, 2-3, 2-5, 2-6, Extend 2-6, 2-7, 2-8, Extend 2-8, 7-2, LA 6, CSB15	81-91, 96-100, 102-120, 370-375, LA25-LA28, 757-758

<b>Assessment Anchors and Eligible Content</b>		<b>Lesson(s)</b>	<b>Page Number(s)</b>
<b>M6.E.1.1.3</b>	Display data in frequency tables, circle graphs, double-bar graphs, double line graphs or line plots using a title, appropriate scale, labels and a key when needed.  Circle graphs for open-ended items must show a center point and tic marks.	2-2, Extend 2-2, 2-3, 2-5, 2-6, Extend 2-6, 2-7, 2-8, Extend 2-8, 7-2, LA 6, CSB15	81-91, 96-100, 102-120, 370-375, LA25-LA28, 757-758
<b>ANCHOR M6.E.2</b> <b>Select and use appropriate statistical methods to analyze data.</b>			
<b>M6.E.2.1</b>	Describe data sets using mean, median, mode and/or range.	2-6, Extend 2-6, 2-7	102-113
<b>M6.E.2.1.1</b>	Determine/calculate the mean, median, mode and/or range of displayed data (data can be displayed in a table or line plot – use whole numbers only up to 2 digits).	2-6, Extend 2-6, 2-7	102-113
<b>ANCHOR M6.E.3</b> <b>Understand and apply basic concepts of probability.</b>			
<b>M6.E.3.1</b>	Determine all possible combinations, outcomes and/or calculate the probability of a simple event.	7-4, Extend 7-4, 7-5	381-387, 389-393
<b>M6.E.3.1.1</b>	Define and/or find the probability of a simple event (express as a fraction in lowest terms).	7-4, Extend 7-4	381-387
<b>M6.D.3.1.2</b>	Determine/show all possible combinations involving no more than 20 total arrangements (e.g., tree diagram, table, grid).	7-5	389-393
<b>ANCHOR M6.E.4</b> <b>Develop and/or evaluate inferences and predictions or draw conclusions based on data or data displays.</b> <i>Not Addressed at Grade 6</i>			

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# Pacing Guide for Pennsylvania

The organization and pacing of *Pennsylvania Math Connects*, Course 1 is front-loaded for the PSSA. Following the pacing guide below will help ensure in-depth coverage of all Grade 6 standards, assessment anchors and eligible content success on the PSSA.

**Boldfaced standards indicate the assessment anchor(s) and/or eligible content that are the main focus of the lesson.**

Chapter 1 Algebra: Number Patterns and Functions		
CSB1	Divisibility Patterns	M6.A.1.3.3
CSB3	Comparing and Ordering Whole Numbers	M6.A.1.2, M6.A.1.2.1
CSB4	Estimating with Whole Numbers	M6.A.3.1.1
CSB5	Adding and Subtracting Whole Numbers	M6.A.3.2.1
CSB6	Multiplying and Dividing Whole Numbers	M6.A.3.2.1
1-1	A Plan for Problem Solving	2.4.8.B, 2.5.8.D, M6.A.2.1
1-2	Prime Factors	M6.A.1.3
1-3	Powers and Exponents	2.1.8.B, 2.5.8.B, M6.A.1.1.3
1-4	Order of Operations	2.1.8.B, 2.2.8.A, 2.5.8.C, M6.A.3.2.1
1-5	Algebra: Variables and Expressions	M6.D.2.2, M6.D.2.2.1
Explore 1-6	Graphing Calculator Lab: Function Machines	2.8.8.E, 2.8.8.G, 2.8.8.H, 2.8.8.I, 2.8.8.J, M6.D.1.2.1
1-6	Algebra: Functions	2.8.8.H, 2.8.8.I, 2.8.8.J, M6.D.1.1, M6.D.1.1.1, M6.D.1.2, M6.D.1.2.1
1-7	PSI: Guess and Check	2.5.8.D, M6.A.3.2.1
RSP	Topic Sentences	M6.A.3.2.1
1-8	Algebra: Equations	2.8.8.D, M6.D.2.1, M6.D.2.1.2
Explore 1-9	Algebra Lab: Writing Formulas	2.4.8.A, 2.8.8.D, M6.D.2.2
1-9	Algebra: Area Formulas	M6.B.2.2

Chapter 2 Statistics and Graphs		
2-1	PSI: Make a Table	2.5.8.D, M6.E.1.1.1
RSP	Large Numbers	M6.A.3.2.1
2-2	Bar Graphs and Line Graphs	2.4.8.H, M6.E.1.1, M6.E.1.1.1, M6.E.1.1.2, M6.E.1.1.3
Extend 2-2	Spreadsheet Lab: Double-Line and -Bar Graphs	2.4.8.H, 2.6.8.F, M6.E.1.1.1, M6.E.1.1.2, M6.E.1.1.3
2-3	Interpret Line Graphs	2.4.8.H, M6.E.1.1, M6.E.1.1.1, M6.E.1.1.2, M6.E.1.1.3
2-4	Stem-and-Leaf Plots	2.5.8.C, 2.6.8.E, M6.E.1.1.2
CSB15	Frequency Tables	M6.E.1.1.1, M6.E.1.1.2, M6.E.1.1.3
LA 6	Histograms	M6.E.1.1.1, M6.E.1.1.2, M6.E.1.1.3
2-5	Line Plots	M6.E.1.1.1, M6.E.1.1.2, M6.E.1.1.3
2-6	Mean	2.6.8.A, M6.E.1.1.1, M6.E.1.1.2, M6.E.1.1.3 M6.E.2.1, M6.E.2.1.1,
Extend 2-6	Spreadsheet Lab: Spreadsheets and Mean	2.6.8.A, 2.6.8.F, M6.E.2.1, M6.E.2.1.1
2-7	Median, Mode, and Range	2.4.8.G, 2.6.8.A, M6.E.1.1.1, M6.E.1.1.2, M6.E.1.1.3 M6.E.2.1, M6.E.2.1.1
2-8	Selecting an Appropriate Display	2.4.8.C, M6.E.1.1.1, M6.E.1.1.2, M6.E.1.1.3
Extend 2-8	Statistics Lab: Collecting Data to Solve a Problem	2.4.8.H, 2.6.8.D, M6.E.1.1.1, M6.E.1.1.2, M6.E.1.1.3
2-9	Integers and Graphing	M6.E.1.1, M6.E.1.1.1, M6.E.1.1.3

<b>Chapter 3 Operations with Decimals</b>		
3-1	Representing Decimals	2.1.8.A, M6.A.1.1
3-2	Comparing and Ordering Decimals	2.1.8.C, 2.5.8.B, M6.A.1.2, M6.A.1.2.1
3-3	Rounding Decimals	2.2.8.E, 2.2.8.F, M6.A.3.1, M6.A.3.1.1
3-4	Estimating Sums and Differences	2.2.8.E, 2.2.8.F, M6.A.3.1, M6.A.3.1.1
Explore 3-5	<b>Math Lab:</b> Adding and Subtracting Decimals Using Models	2.2.8.B, 2.4.8.A, 2.4.8.D, M6.A.3.2.1
3-5	Adding and Subtracting Decimals	2.2.8.B, 2.4.8.A, 2.5.8.C, M6.A.3.2, M6.A.3.2.1
Explore 3-6	<b>Math Lab:</b> Multiplying Decimals by Whole Numbers	2.2.8.B, 2.4.8.D, M6.A.3.2.1
3-6	Multiplying Decimals by Whole Numbers	M6.A.3.2.1
Explore 3-7	<b>Math Lab:</b> Multiplying Decimals	2.2.8.B, M6.A.3.2.1
3-7	Multiplying Decimals	2.2.8.B, M6.A.3.2.1
3-8	Dividing Decimals by Whole Numbers	2.2.8.B, 2.5.8.B, M6.A.3.2.1
Explore 3-9	<b>Math Lab:</b> Dividing by Decimals	M6.A.3.2.1
3-9	Dividing by Decimals	2.2.8.B, M6.A.3.2, M6.A.3.2.1
3-10	<b>PSI:</b> Reasonable Answers	2.5.8.D, M6.A.2.1
<b>Chapter 4 Fractions and Decimals</b>		
RSP	Make a Diagram	M6.A.1.3
4-1	Greatest Common Factor	M6.A.1.3, M6.A.1.3.1
Explore 4-2	<b>Math Lab:</b> Equivalent Fractions	M6.A.1.1, M6.A.1.3.1
4-2	Simplifying Fractions	2.1.8.A, M6.A.1.1, M6.A.1.3.1
4-3	Mixed Numbers and Improper Fractions	2.1.8.A, M6.A.1.1, M6.A.1.1.4
4-4	<b>PSI:</b> Make an Organized List	2.5.8.A, M6.A.3.2.1
4-5	Least Common Multiple	2.4.8.A, 2.5.8.C, M6.A.1.3, M6.A.1.3.2

4-6	Comparing and Ordering Fractions	2.1.8.C, M6.A.1.2, M6.A.1.2.1
4-7	Writing Decimals as Fractions	2.1.8.A, 2.5.8.B, M6.A.1.1, M6.A.1.1.2
4-8	Writing Fractions as Decimals	2.1.8.A, M6.A.1.1, M6.A.1.1.2
4-9	<b>Algebra:</b> Ordered Pairs and Functions	M6.C.3.1, M6.C.3.1.1
<b>Chapter 5 Operations with Fractions</b>		
Explore 5-1	<b>Math Lab:</b> Rounding Fractions	2.4.8.D, M6.A.3.1, M6.A.3.1.1
5-1	Rounding Fractions and Mixed Numbers	M6.A.3.1, M6.A.3.1.1
5-2	<b>PSI:</b> Act It Out	2.5.8.A, M6.E.1.1.1
5-3	Adding and Subtracting Fractions with Like Denominators	2.2.8.B, M6.A.3.2, M6.A.3.2.1
Explore 5-4	<b>Math Lab:</b> Unlike Denominators	2.4.8.D, M6.A.1.3, M6.A.1.3.2, M6.A.3.2.1
5-4	Adding and Subtracting Fractions with Unlike Denominators	2.2.8.B, M6.A.1.3, M6.A.1.3.2, M6.A.3.2.1
RSP	Meaning of Subtraction	M6.A.3.2.1
5-5	Adding and Subtracting Mixed Numbers	2.2.8.B, M6.A.1.3, M6.A.1.3.2, M6.A.3.2.1
5-6	Estimating Products of Fractions	2.2.8.F, M6.A.3.1, M6.A.3.1.1
Explore 5-7	<b>Math Lab:</b> Multiplying Fractions	M6.A.3.2.1
5-7	Multiplying Fractions	2.2.8.B, M6.A.3.2.1
5-8	Multiplying Mixed Numbers	2.2.8.B, M6.A.3.2.1
Explore 5-9	<b>Math Lab:</b> Dividing Fractions	M6.A.3.2.1
5-9	Dividing Fractions	2.2.8.B, M6.A.3.2.1
5-10	Dividing Mixed Numbers	2.2.8.B, M6.A.3.2.1
<b>Chapter 6 Ratio, Proportion, and Functions</b>		
6-1	Ratios and Rates	2.1.8.D, 2.2.8.D, 2.3.8.B, 2.11.8.B, M6.A.1.1, M6.A.1.2
Extend 6-1	<b>Math Lab:</b> Ratios and Tangrams	M6.A.1.2.1, M6.B.2.2

LA = Looking Ahead; CSB = Concepts and Skills Bank; RSP = Reading to Solve Problems



6-2	Ratio Tables	2.1.8.D, 2.2.8.D, M6.D.1.1, M6.D.1.1.1, M6.D.1.2
Extend 6-2	Graphing Calculator Lab: Ratio Tables	2.2.8.D, M6.D.1.1, M6.D.1.1.1, M6.D.1.2
6-3	Proportions	2.1.8.D, 2.2.8.D, 2.4.8.C, 2.4.8.G, M6.A.1.2, M6.A.1.2.1
6-4	Algebra: Solving Proportions	2.2.8.D, 2.4.8.B, 2.4.8.C, 2.4.8.G, M6.D.2.1
6-5	PSI: Look for a Pattern	2.4.8.B, 2.4.8.G, 2.5.8.A, 2.8.8.A, 2.8.8.B, 2.8.8.C, 2.11.8.C, M6.D.1.1, M6.D.1.1.1, M6.D.1.2
6-6	Sequences and Expressions	2.8.8.A, 2.8.8.B, 2.8.8.C, 2.11.8.C, M6.D.1.1.1, M6.D.1.2, M6.D.1.2.1
6-7	Proportions and Equations	2.4.8.B, M6.D.2.2
Extend 6-7	Graphing Calculator Lab: Graphing Proportional Relationships	2.8.8.G, 2.8.8.J, M6.C.3.1, M6.C.3.1.1
CSB9	Scale and Proportion	2.3.8.F, 2.3.8.G

### Chapter 7 Percent and Probability

Explore 7-1	Math Lab: Modeling Percents	M6.A.1.4, M6.A.1.4.1
7-1	Percents and Fractions	2.1.8.A, M6.A.1.1, M6.A.1.1.1, M6.A.1.4.1
7-2	Circle Graphs	M6.E.1.1.1, M6.E.1.1.2, M6.E.1.1.3, M6.A.1.4.1
RSP	Draw a Picture	M6.A.1.1
7-3	Percents and Decimals	M6.A.1.1, M6.A.1.1.1, M6.A.1.4.1
7-4	Probability	M6.E.3.1, M6.E.3.1.1
Extend 7-4	Probability Lab: Experimental Probability	2.7.8.D, 2.7.8.E, M6.E.2.1, M6.E.3.1.1
7-5	Sample Spaces	2.7.8.B, M6.E.3.1, M6.D.3.1.2
7-6	Making Predictions	2.7.8.B, 2.7.8.C, 2.7.8.E, M6.E.1.1.1
7-7	PSI: Solve a Simpler Problem	2.5.8.A, M6.A.3.1, M6.A.3.1.1
7-8	Estimating with Percents	2.2.8.F, M6.A.3.1, M6.A.3.1.1





Chapter 8 Percent and Probability		
<b>PA 1</b>	Reading a Ruler to $\frac{1}{16}$ - Inch	<b>M5.B.2.1.1</b>
<b>8-1</b>	Length in the Customary System	<b>M6.B.2.1, M6.B.2.1.1, M6.B.2.1.2</b>
<b>8-2</b>	Capacity and Weight in the Customary System	<b>M6.B.2.1, M6.B.2.1.2</b>
<b>Explore 8-3</b>	<b>Measurement Lab:</b> The Metric System	<b>M6.B.2.1, M6.B.2.1.1</b>
<b>8-3</b>	Length in the Metric System	<b>M6.B.2.1, M6.B.2.1.1, M6.B.2.1.2</b>
<b>8-4</b>	Mass and Capacity in the Metric System	<b>M6.B.2.1, M6.B.2.1.2</b>
<b>8-5</b>	<b>PSI:</b> Use Benchmarks	<b>M6.A.2.1</b>
<b>8-6</b>	Changing Metric Units	<b>M6.B.2.1</b>
<b>8-7</b>	Measures of Time	<b>M6.B.1.1, M6.B.1.1.1, M6.B.2.1</b>
<b>8-8</b>	Measures of Temperature	<b>M6.B.2.1</b>
<b>Extend 8-8</b>	<b>Measurement Lab:</b> Using Appropriate Units and Tools	<b>M6.B.2.1, M6.B.2.1.2</b>

Chapter 9 Geometry: Angles and Polygons		
<b>CSB12</b>	Geometric Elements	<b>M6.C.1.2.2</b>
<b>9-1</b>	Measuring Angles	<b>2.3.8.C, 2.3.8.D, M6.B.2.1, M6.B.2.1.3, M6.B.2.3, M6.B.2.1.3, M6.B.2.3.1</b>
<b>9-2</b>	Estimating and Drawing Angles	<b>2.3.8.C, 2.3.8.D, 2.4.8.C, M6.B.2.1.3, M6.B.2.3</b>
<b>9-3</b>	Angle Relationships	<b>2.3.8.C, 2.9.8.B, M6.B.2.3</b>
<b>LA 3</b>	Angle and Line Relationships	<b>2.3.8.C, 2.9.8.E, M6.C.1.2, M6.B.2.3, M6.C.1.2.1</b>
<b>Explore 9-4</b>	<b>Geometry Lab:</b> Angles in Triangles	<b>2.3.8.C, 2.9.8.D, M6.B.2.3, M6.C.1.1.2, M6.C.1.1.4</b>
<b>9-4</b>	Triangles	<b>2.9.8.D, M6.B.2.3, M6.C.1.1, M6.C.1.1.2, M6.C.1.1.4</b>
<b>Explore 9-5</b>	<b>Geometry Lab:</b> Angles in Quadrilaterals	<b>2.9.8.D, M6.B.2.3, M6.C.1.1.4</b>
<b>9-5</b>	Quadrilaterals	<b>2.9.8.C, 2.9.8.D, M6.C.1.1, M6.C.1.1.1, M6.C.1.1.4</b>
<b>PA 2</b>	Classify Polygons	<b>M6.C.1.1.1</b>
<b>9-6</b>	<b>PSI:</b> Draw a Diagram	<b>M6.A.3.2.1</b>

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9-7	Similar and Congruent Figures	2.9.8.F, 2.9.8.K, 2.10.8.A, M6.C.1.1
Extend 9-7	Geometry Lab: Tessellations	2.9.8.J, 2.9.8.K, M6.C.1.1
<b>Chapter 10 Measurement: Perimeter, Area, and Volume</b>		
Explore 10-1	Measurement Lab: Area and Perimeter	2.3.8.A, 2.3.8.D, M6.B.2.2.1
10-1	Perimeter	2.3.8.A, 2.3.8.D, 2.3.8.E, M6.B.2.2, M6.B.2.2.1
Explore 10-2	Measurement Lab: Circumference	2.3.8.A, 2.3.8.D, M6.B.2.2
10-2	Circles and Circumference	2.2.8.C, 2.3.8.A, 2.3.8.D, 2.3.8.E, 2.9.8.G, M6.B.2.2, M6.C.1.1.3
LA 4	Area of Circles	M.6.B.2.2, M6.C.1.1.4
10-3	Area of Parallelograms	2.3.8.A, 2.3.8.D, M6.B.2.2
Explore 10-4	Measurement Lab: Area of Triangles	2.3.8.A, 2.3.8.D, M6.B.2.2
10-4	Area of Triangles	2.3.8.A, 2.3.8.D, 2.3.8.E, M6.B.2.2
CSB13	Composite Figures	M6.B.2.2, M6.B.2.2.1
CSB14	Three-Dimensional Figures	2.9.8.D
10-6	Volume of Rectangular Prisms	2.3.8.A, 2.3.8.D, 2.3.8.E, 2.9.8.D, M6.B.2.2
Explore 10-7	Geometry Lab: Using a Net to Build a Cube	M6.B.2.2, M6.D.2.2
10-7	Surface Area of Rectangular Prisms	2.3.8.A, 2.3.8.D, 2.3.8.E, M6.B.2.2
LA 5	Surface Area and Volume of Pyramids and Cylinders	M.6.B.2.2
Extend 10-7	Measurement Lab: Selecting Formulas and Units	2.3.8.A, 2.3.8.D, M6.B.2.1, M6.B.2.2
<b>Chapter 11 Integers and Transformations</b>		
11-1	Ordering Integers	M6.A.1.2, M6.A.1.2.1
Explore 11-2	Algebra Lab: Zero Pairs	M6.A.3.2.1, M6.C.1.1.3
11-2	Adding Integers	M6.A.3.2.1
11-3	Subtracting Integers	M6.A.3.2.1
11-4	Multiplying Integers	M6.A.3.2.1

11-5	PSI: Work Backward	M6.A.3.2.1
11-6	Dividing Integers	M6.A.3.2.1
11-7	The Coordinate Plane	M6.C.3.1, M6.C.3.1.1
11-8	Translations	2.9.8.J, 2.9.8.K, M6.C.3.1, M6.C.3.1.1
11-9	Reflections	M6.C.3.1, M6.C.3.1.1
11-10	Rotations	2.9.8.K, M6.C.3.1, M6.C.3.1.1
<b>Chapter 12 Algebra: Properties and Equations</b>		
CSB10	Algebraic Properties	M6.A.2.1.1
Explore 12-1	Algebra Lab: The Distributive Property	2.8.8.E, M6.A.2.1.1, M6.D.2.2.1
12-1	The Distributive Property	2.1.8.E, M6.A.2.1, M6.A.2.1.1, M6.D.2.2.1
12-2	Simplifying Algebraic Expressions	2.1.8.E, M6.D.2.2, M6.D.2.2.1
Explore 12-3	Algebra Lab: Solving Addition Equations Using Models	2.1.8.G, 2.8.8.E, 2.8.8.F, 2.8.8.G, 2.8.8.K, M6.D.2.1.1, M6.D.2.1.2, M6.D.2.2.1
12-3	Solving Addition Equations	2.1.8.G, 2.8.8.D, 2.8.8.F, 2.8.8.G, 2.8.8.K, M6.A.2.1.1, M6.D.2.1, M6.D.2.1.1, M6.D.2.1.1
Explore 12-4	Algebra Lab: Solving Subtraction Equations Using Models	2.1.8.G, 2.8.8.E, 2.8.8.F, 2.8.8.G, 2.8.8.K, M6.D.2.1.1, M6.D.2.1.2, M6.D.2.2.1
12-4	Solving Subtraction Equations	2.1.8.G, 2.8.8.D, 2.8.8.F, 2.8.8.G, 2.8.8.K, M6.A.2.1.1, M6.D.2.1, M6.D.2.1.1, M6.D.2.1.2, M6.D.2.2.1
Extend 12-4	Algebra Lab: Solving Inequalities Using Models	2.8.8.G, M6.D.2.1
12-5	Solving Multiplication Equations	2.1.8.G, 2.8.8.D, 2.8.8.F, 2.8.8.G, 2.8.8.K, M6.A.2.1.1, M6.D.2.1.1, M6.D.2.1.2, M6.D.2.2.1
LA 2	Two-Step Equations	2.1.8.G
12-6	PSI: Choose the Best Method of Computation	M6.E.1.1.1