

## 6th Grade Math Curriculum Map

Qtr.	NYS Performance Indicators	Content / Skills / Strategies	<b>Activities</b> McDougal Littell Middle School Math Course 1, <b>Course 2</b> , and <b>Scott Foresman, Exploring Mathematics</b> (* pre- March topic)	Additional Resources	Assessments
1	6.N.1	<ul style="list-style-type: none"> <li>Read and write whole numbers to trillions</li> </ul>	*Exploring Math-p14 Inverse Operations workbook p. 6	<ol style="list-style-type: none"> <li>Resource Book: Includes Pre Lesson Activity Masters, 3 Levels of Practice Pages, Study Guides, Real World Problem Solving pages, and Challenge Practices</li> <li>Warm – up Transparencies with Daily Homework Quiz</li> <li>Special Activities</li> <li>Practice Book</li> <li>Note-taking Guide</li> <li>Tutor Place Cards</li> <li>Classzone. com</li> </ol>	Quizzes + Chapter Tests from Chapter 1 & 4.  Unit 1 Assessment (omit statistics question)
1	6.N.4	<ul style="list-style-type: none"> <li>Define and identify the identity and inverse properties of addition and multiplication</li> </ul>	*Skills Review Number Fact Families p. 687		
1	Review if Necessary	<ul style="list-style-type: none"> <li>Whole numbers</li> </ul>	Lesson 1.1 Whole Number Operations p. 5  Lesson 1.2 Whole Number Estimation p. 12		
1	6.N.23 6.N.24 6.N.25	<ul style="list-style-type: none"> <li>Represent repeated multiplication in exponential form</li> <li>Represent exponential form as repeated multiplication</li> <li>Evaluate expressions having exponents where the power is an exponent of one, two, or three</li> </ul>	*Lesson 1.3 Powers and Exponents p. 16		
1	6.N.22	<ul style="list-style-type: none"> <li>Evaluate numerical expressions using order of operations (may include exponents of two and three)</li> </ul>	*Lesson 1.4 Order of Operations p. 21		

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1	6.A.2	<ul style="list-style-type: none"> <li>Use substitution to evaluate algebraic expressions (may include exponents of one, two and three)</li> </ul>	*Lesson 1.5 Variables and Expressions p. 29		
1	6.A.2 6.N.5 6.PS.12 6.PS.2	<ul style="list-style-type: none"> <li>Use substitution to evaluate algebraic expressions (may include exponents of one, two and three)</li> <li>Define and identify the zero property of multiplication</li> </ul>	*Lesson 1.6 Equations and Mental Math p. 34  *Lesson 1.7 A Problem Solving Plan - Verbal Model p. 41		
1	Review if Necessary	<ul style="list-style-type: none"> <li>Place Value</li> <li>Ordering Decimals</li> <li>Rounding Decimals</li> </ul>	Lesson 3.1 Place Value p. 107  Lesson 3.3 Ordering Decimals p. 118  Lesson 3.4 Rounding Decimals p. 124		
1	6.N.2 6.A.6	<ul style="list-style-type: none"> <li>Define and identify the commutative and associative properties of addition and multiplication</li> </ul>	*Lesson 3.6 Adding and Subtracting Decimals p. 136  *Lesson 4.1 Multiplying Decimals and Whole Numbers p. 153		

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1	6.N.3	<ul style="list-style-type: none"> <li>Define and identify the distributive property of multiplication over addition</li> </ul>	*Lesson 4.2 The Distributive Property p. 159		
1	Review if Necessary	<ul style="list-style-type: none"> <li>Multiplying Decimals</li> <li>Dividing Decimals</li> </ul>	Lesson 4.3 Multiplying Decimals p. 164  Lesson 4.4 Dividing Decimals by Whole Numbers p. 169  Lesson 4.6 Dividing By Decimals p. 180		
1	6.M.4 6.M.5 6.M.6 6.M.9 6.PS.2 6.PS.3	<ul style="list-style-type: none"> <li>Identify metric units of capacity (liter and milliliter)</li> <li>Identify equivalent metric units of capacity (milliliter to liter and liter to milliliter)</li> <li>Determine the tool and technique to measure with an appropriate level of precision: capacity</li> <li>Determine personal references for capacity</li> </ul>	*Lesson 4.7 Activity p. 185 & 186  *Lesson 4.7 Mass and Capacity p. 187		
1	6.M.5	<ul style="list-style-type: none"> <li>Identify equivalent metric units of capacity (milliliter to liter and liter to milliliter)</li> </ul>	*Lesson 4.8 Changing Metric Units p. 191		

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1	6.M.4	<ul style="list-style-type: none"> <li>• Identify metric units of capacity (liter and milliliter)</li> </ul>	*Table of Measures p. 722		
1	Review if Necessary	<ul style="list-style-type: none"> <li>• Prime Factorization</li> <li>• GCF</li> <li>• Equal Fractions</li> <li>• LCM</li> <li>• Ordering Fractions</li> <li>• Mixed Number and Improper Fractions</li> </ul>	Lesson 5.1 Prime Factorization p. 214  Lesson 5.2 Greatest Common Factor p. 222  Lesson 5.3 Equivalent Fractions p. 228  Lesson 5.4 Least Common Multiple p. 235  Lesson 5.5 Ordering Fractions p. 239  Lesson 5.6 Mixed Numbers and Improper Fractions p. 244		

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2	6.N.20 6.N.21 6.N.22	<ul style="list-style-type: none"> <li>• Represent fractions as terminating or repeating decimals</li> <li>• Find multiple representations of rational numbers (fractions, decimals, and percents 0 to 100)</li> <li>• Evaluate numerical expressions using order of operations (may include exponents of two and three)</li> </ul>	*Lesson 5.7 Changing Decimals to Fractions p. 249  *Lesson 5.8 Changing Fractions to Decimals p. 253		Quizzes & Chapter Tests from Chapters 6, 7 and 11  Unit 2 Assessment
2	Review if Necessary	<ul style="list-style-type: none"> <li>• Common Denominators</li> </ul>	Lesson 6.2 Fractions with Common Denominators p. 271		
2	6.N.16 6.N.18 6.PS.2 6.PS.13 6.PS.18	<ul style="list-style-type: none"> <li>• Add and subtract fractions with unlike denominators</li> <li>• Add, subtract, multiply and divide mixed numbers with unlike denominators</li> </ul>	*Lessons 6.3 Fractions with Different Denominators p. 277  *Lesson 6.4 Adding and Subtracting Mixed Numbers p. 284  *Lesson 6.5 Subtracting Mixed Numbers by Renaming p. 290		

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2	6.N.17 6.N.18 6.N.19 6.A.6	<ul style="list-style-type: none"> <li>• Multiply and divide fractions with unlike denominators.</li> <li>• Add, subtract, multiply and divide mixed numbers with unlike denominators</li> <li>• Identify the multiplicative inverse (reciprocal) of a number</li> <li>• Evaluate formulas for given input values (circumference, area, volume, distance, temperature, interest, etc.)</li> </ul>	*Lesson 7.1 Multiplying Fractions and Whole Numbers p. 313  *Lesson 7.2 Multiplying Fractions p. 320  *Lesson 7.3 Multiplying Mixed Numbers p. 326  *Lesson 7.4 Dividing Fractions p. 334  *Lesson 7.5 Dividing Mixed Numbers p. 339		
2	6.M.2 6.M.3 6.M.6 6.M.9	<ul style="list-style-type: none"> <li>• Identify customary units of capacity (cups, pints, quarts, and gallons) Identify equivalent customary units of capacity (cups to pints, pints to quarts, and quarts to gallons)</li> <li>• Determine the tool and technique to measure with an appropriate level of precision: capacity</li> <li>• Determine personal references for capacity</li> </ul>	*Lesson 7.6 Weight and Capacity in Customary Units p. 344  *Table of Measures p. 722		

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2	6.M.3 6.PS.18 6.PS.21	<ul style="list-style-type: none"> <li>Identify equivalent customary units of capacity (cups to pints, pints to quarts, and quarts to gallons)</li> </ul>	*Lesson 7.7 Changing Customary Units p. 348		
2	6.N.13 6.N.14 6.N.15 6.PS.13	<ul style="list-style-type: none"> <li>Define absolute value and determine the absolute value of rational numbers (including positive and negative)</li> <li>Locate rational numbers on a number line (including positive and negative) Order rational numbers (including positive and negative)</li> </ul>	*Lesson 11.1 Comparing Integers p. 533  *Lesson 11.2 Adding Integers p. 538  *Lesson 11.3 Subtracting Integers p. 544		
3	6.N.6 6.N.7 6.N.8 6.N.9 6.N.10 6.A.5 6.PS.7 6.PS.13	<ul style="list-style-type: none"> <li>Understand the concept of rate</li> <li>Express equivalent ratios as a proportion</li> <li>Distinguish the difference between rate and ratio</li> <li>Solve proportions using equivalent fractions</li> <li>Verify the proportionality using the product of the means equals the product of the extremes</li> <li>Solve simple proportions within context</li> </ul>	*Lesson 8.1 Ratios p. 374  *Lesson 8.2 Rates p. 379  *Lesson 8.3 Solving Proportions p. 383  Lesson 8.4 Proportions and Scale Drawings p. 388		Quizzes & Chapter Tests from Chapter 8 & 10.  Unit 3 Assessment (omit geometry questions.)

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3	6.N.11 6.N.21	<ul style="list-style-type: none"> <li>• Read, write, and identify percents of a whole (0% to 100%)</li> <li>• Find multiple representations of rational numbers (fractions, decimals, and percents 0 to 100)</li> </ul>	*Lesson 8.5 Understanding Percent p. 395  *Lesson 8.6 Percents, Decimals, and Fractions p. 399		
3	6.N.12 6.N.26 6.A.6 6.PS.2 6.RP.1	<ul style="list-style-type: none"> <li>• Solve percent problems involving percent, rate, and base</li> <li>• Estimate a percent of quantity (0% to 100%)</li> <li>• Evaluate formulas for given input values (circumference, area, volume, distance, temperature, interest, etc.)</li> </ul>	*Lesson 8.7 Finding a Percent of a Number p. 404  * <a href="#">Course 2 Lesson 9.2 Percents and Proportions</a> p. 420-422 ex 2&3		
3	6.G.1 6.G.2 6.G.3	<ul style="list-style-type: none"> <li>• Calculate the length of corresponding sides of similar triangles, using proportional reasoning</li> <li>• Determine the area of triangles and quadrilaterals (squares, rectangles, rhombi, and trapezoids) and develop formulas</li> <li>• Use a variety of strategies to find the area of regular and irregular polygons</li> </ul>	* <a href="#">Exploring Math p.393+394, Workbook p.109</a>  * <a href="#">Course 2 Lesson 10.6 Using Proportions with Similar Polygons</a> p. 506-509  *Lesson 2.2 Perimeter and Area p. 61		



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3	6.G.2 6.G.3	<ul style="list-style-type: none"> <li>• Determine the area of triangles and quadrilaterals (squares, rectangles, rhombi, and trapezoids) and develop formulas</li> <li>• Use a variety of strategies to find the area of regular and irregular polygons</li> </ul>	*Lesson 10.1 p. 475  *Lesson 10.2 p. 480  *Course 2 Lesson 11.5 Areas of Triangles and Trapezoids p. 558 + 559		
3	6.G.3	<ul style="list-style-type: none"> <li>• Use a variety of strategies to find the area of regular and irregular polygons</li> </ul>	*Exploring Math p348-349  *Course 2 Lesson 1.6 Perimeter and Area p. 35		
3	6.G.5 6.G.6 6.G.7 6.G.9	<ul style="list-style-type: none"> <li>• Identify radius, diameter, chords and central angles of a circle</li> <li>• Understand the relationship between the diameter and radius of a circle</li> <li>• Determine the area and circumference of a circle, using the appropriate formula</li> <li>• Understand the relationship between the circumference and the diameter of a circle</li> </ul>	*Lesson 10.3 Circumference of a Circle p. 484  *Exploring Math p 180  *Lesson 10.4 Area of a Circle p. 491		

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3	6.G.4 6.M.1	<ul style="list-style-type: none"> <li>• Determine the volume of rectangular prisms by counting cubes and develop the formula</li> <li>• Measure capacity and calculate volume of a rectangular prism</li> </ul>	*Lesson 10.7 Volume of a Prism p. 510		
3	6.G.10 6.G.11	<ul style="list-style-type: none"> <li>• Identify and plot points in all four quadrants</li> <li>• Calculate the area of basic polygons drawn on a coordinate plane (rectangles and shapes composed of rectangles having sides with integer lengths)</li> </ul>	Lesson 11.6 Translations in a Coordinate Plane p. 562 example 1  Course 2 Lesson 6.8 The Coordinate Plane p. 293 & 294 example 3		
4	6.A.1 6.A.3 6.A.4 6.PS.13	<ul style="list-style-type: none"> <li>• Translate two-step verbal expressions into algebraic expressions</li> <li>• Translate two-step verbal sentences into algebraic equations</li> <li>• Solve and explain two-step equations involving whole numbers using inverse operations</li> </ul>	Lesson 12.1 Writing Expressions and Equations p. 583  Course 2 Lesson 7.1 Writing Expressions and Equations p. 317-320  Lesson 12.2 Solving Addition Equations p. 587		Quizzes & Chapter Tests from Chapter 2, 12 & 13.  Unit 4 Assessment (add Unit 1 assessment statistics questions)

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4	6.S.1 6.S.3	<ul style="list-style-type: none"> <li>• Develop the concept of sampling when collecting data from a population and decide the best method to collect data for a particular question</li> <li>• Construct Venn diagrams to sort data</li> </ul>	Course 2 Lesson 3.1 Mean, Median, and Mode p. 106-107  Course 2 Lesson 13.1 Introduction to Probability p. 632 and Teachers Ed p. 631 See Margin		
4	6.S.2 6.S.4 6.S.5 6.S.6 6.S.7	<ul style="list-style-type: none"> <li>• Record data in a frequency table</li> <li>• Determine and justify the most appropriate graph to display a given set of data (pictograph, bar graph, line graph, histogram, or circle graph)</li> <li>• Determine the mean, mode and median for a given set of data</li> <li>• Determine the range for a given set of data</li> <li>• Read and interpret graphs</li> </ul>	Lesson 2.4 Frequency Tables and Line Plots p. 72  Lesson 2.5 Bar Graphs p. 79  Lesson 2.6 Coordinates and Line Graphs p. 83  Lesson 2.7 Circle Graphs p. 88  *Lesson 2.8 Mean, Median, Mode, Range p. 93		

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4	6.S.2 6.S.9 6.S.10 6.PS.4	<ul style="list-style-type: none"> <li>• Record data in a frequency table</li> <li>• List possible outcomes for compound events</li> <li>• Determine the probability of dependent events</li> </ul>	Lesson 13.1 Introduction to Probability p. 629  Lesson 13.2 Finding Outcomes p. 636  Lesson 13.3 Probability of Independent Events p. 640		
4	6.S.4 6.S.7	<ul style="list-style-type: none"> <li>• Determine and justify the most appropriate graph to display a given set of data (pictograph, bar graph, line graph, histogram, or circle graph)</li> <li>• Read and interpret graphs</li> </ul>	Lesson 13.7 Choosing an Appropriate Data Display p. 662 (omit stem and leaf plot and box and whiskers)		
4	6.S.9 6.S.10 6.S.11	<ul style="list-style-type: none"> <li>• List possible outcomes for compound events</li> <li>• Determine the probability of dependent events</li> <li>• 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</li> </ul>	<b>Course 2</b> <b>Lesson 13.3</b> <b>The Counting Principle</b> <b>p. 644-645</b>  <b>Course 2</b> <b>Lesson 13.6</b> <b>Independent and Dependent Events</b> <b>p. 664-666</b>		