

## Welcome, Educators!

As you plan for this year, we hope that *Math in Focus*<sup>®</sup> and the Singapore Math<sup>®</sup> approach will provide effective strategies for focusing and differentiating instruction. The framework below is designed to help you focus your planning.

### Using the Essential Content Framework

To move forward this fall, we recommend beginning with the content from the current grade. Review this framework against your school's and state's specific goals, and in collaboration with administrators and your colleagues across grades, to determine where you want to add new content or prior-year review.

As you reach the priority topics shown below, as well as the topics that address your specific priorities, you may want to reinforce prerequisite knowledge. The Prior Learning column (Grades 1 and up) suggests where you can find support from the grade before. If the third column is empty, it means that students learned the prerequisites earlier this grade, or several grades in the past.

When you reach content that is *not* listed as priority content, you can take several paths to give students a targeted grounding:

- Combine some content from that section into a related priority section.
- Teach a mini-lesson on that topic, with the Learn activities and practice, possibly using learning stations.
- Use these topics to extend concepts within a related section.

### Evaluating Readiness

We recommend using the Recall Prior Knowledge and Quick Check to get a sense of students' readiness for each chapter and to identify areas to dig into more deeply as you move through grade-level content. You can also administer chapter Pre-Tests; we recommend emphasizing the diagnostic and formative nature of these to provide the most supportive learning environment.

### From Engagement to Mastery

Students should start with engaging, hands-on learning experiences to the greatest possible extent. Using the Concrete-Pictorial-Abstract (CPA) approach, you may want students to use physical math manipulatives throughout the lessons and as a strategic resource to solve non-routine problems. The goal is for students to grow as problem solvers and as mathematicians.

We look forward to supporting you on this worthwhile journey.

**The Math in Focus<sup>®</sup> Team**

## Math in Focus © 2012 Course 1

Priority standards were identified through Achieve the Core.\*

Standards in *italics* were further selected by International Center for Leadership in Education.\*\*

Course 1 Section	Priority Standards	Prior Learning
<b>Chapter 1 Positive Numbers and the Number Line</b>		
1.1 The Number Line	6.NS.C Apply and extend previous understandings of numbers to the system of rational numbers.*	
1.2 Prime Factorization	Not identified as a priority standard. See teaching suggestions noted in the letter.	
1.3 Common Factors and Multiples	Not identified as a priority standard. See teaching suggestions noted in the letter.	
1.4 Squares and Square Roots	6.EE.A Apply and extend previous understandings of arithmetic to algebraic expressions.	
1.5 <i>Cubes and Cube Roots</i>	<i>6.EE.A Apply and extend previous understandings of arithmetic to algebraic expressions.**</i>	
<b>Chapter 2 Negative Numbers and the Number Line</b>		
2.1 Negative Numbers	6.NS.C Apply and extend previous understandings of numbers to the system of rational numbers.	
2.2 Absolute Value	6.NS.C Apply and extend previous understandings of numbers to the system of rational numbers.	
<b>Chapter 3 Multiplying and Dividing Fractions and Decimals</b>		
3.1 <i>Dividing Fractions</i>	<i>6.NS.A Apply and extend previous understandings of multiplication and division to divide fractions by fractions.</i>	Grade 5 Section 4.6 Grade 5 Section 4.6.a Grade 5 Section 4.7 Grade 5 Section 4.7.a
3.2 <i>Multiplying Decimals</i>	<i>6.NS.B Compute fluently with multi-digit numbers and find common factors and multiples.+</i>	Grade 5 Section 9.1 Grade 5 Section 9.2
3.3 <i>Dividing Decimals</i>	<i>6.NS.B Compute fluently with multi-digit numbers and find common factors and multiples.+</i>	Grade 5 Section 9.3 Grade 5 Section 9.4
3.4 <i>Real-World Problems: Fractions and Decimals</i>	<i>6.NS.A Apply and extend previous understandings of multiplication and division to divide fractions by fractions.</i> <i>6.NS.B Compute fluently with multi-digit numbers and find common factors and multiples.+</i>	Grade 5 Section 9.6
<b>Chapter 4 Ratio</b>		
4.1 Comparing Two Quantities	6.RP.A Understand ratio concepts and use ratio reasoning to solve problems.	Grade 5 Section 7.1
4.2 Equivalent Ratios	6.RP.A Understand ratio concepts and use ratio reasoning to solve problems.	Grade 5 Section 7.2
4.3 Real-World Problems: Ratios	6.RP.A Understand ratio concepts and use ratio reasoning to solve problems.	Grade 5 Section 7.3 Grade 5 Section 7.6
<b>Chapter 5 Rates</b>		
5.1 Rates and Unit Rates	6.RP.A Understand ratio concepts and use ratio reasoning to solve problems.	

Course 1 Section	Priority Standards	Prior Learning
5.2 Real-World Problems: Rates and Unit Rates	6.RP.A Understand ratio concepts and use ratio reasoning to solve problems.	
<b>Chapter 6 Percent</b>		
6.1 Understanding Percent	6.RP.A Understand ratio concepts and use ratio reasoning to solve problems.	Grade 5 Section 10.1
6.2 Fractions, Decimals, and Percents	6.RP.A Understand ratio concepts and use ratio reasoning to solve problems.	Grade 5 Section 10.2
6.3 Percent of a Quantity	6.RP.A Understand ratio concepts and use ratio reasoning to solve problems.	Grade 5 Section 10.3
6.4 Real-World Problems: Percent	6.RP.A Understand ratio concepts and use ratio reasoning to solve problems.	Grade 5 Section 10.4
6.5 Percent of Change	6.RP.A Understand ratio concepts and use ratio reasoning to solve problems.	
<b>Chapter 7 Algebraic Expressions</b>		
7.1 Writing Algebraic Expressions	6.EE.A Apply and extend previous understandings of arithmetic to algebraic expressions. 6.EE.B Reason about and solve one-variable equations and inequalities.	Grade 5 Section 5.1
7.2 Evaluating Algebraic Expressions	6.EE.A Apply and extend previous understandings of arithmetic to algebraic expressions.	
7.3 Simplifying Algebraic Expressions	6.EE.A Apply and extend previous understandings of arithmetic to algebraic expressions. 6.EE.B Reason about and solve one-variable equations and inequalities.	Grade 5 Section 5.2
7.4 Expanding and Factoring Algebraic Expressions	6.EE.A Apply and extend previous understandings of arithmetic to algebraic expressions.	
7.5 Real-World Problems: Algebraic Expressions	6.EE.B Reason about and solve one-variable equations and inequalities.	Grade 5 Section 5.4
<b>Chapter 8 Equations and Inequalities</b>		
8.1 Solving Algebraic Equations	6.EE.A Apply and extend previous understandings of arithmetic to algebraic expressions. 6.EE.B Reason about and solve one-variable equations and inequalities.	
8.2 Writing Linear Equations	6.EE.B Reason about and solve one-variable equations and inequalities. 6.EE.C Represent and analyze quantitative relationships between dependent and independent variables.	
8.3 Solving Simple Inequalities	6.EE.B Reason about and solve one-variable equations and inequalities.	Grade 5 Section 5.3

Course 1 Section	Priority Standards	Prior Learning
8.4 Real-World Problems: Equations and Inequalities	6.EE.B Reason about and solve one-variable equations and inequalities.	
<b>Chapter 9 The Coordinate Plane</b>		
9.1 Points on the Coordinate Plane	6.NS.C Apply and extend previous understandings of numbers to the system of rational numbers.	
9.2 Length of Line Segments	6.NS.C Apply and extend previous understandings of numbers to the system of rational numbers. 6.EE.A Apply and extend previous understandings of arithmetic to algebraic expressions.	
9.3 Real-World Problems: Graphing	6.RP.A Understand ratio concepts and use ratio reasoning to solve problems. 6.NS.C Apply and extend previous understandings of numbers to the system of rational numbers.	
<b>Chapter 10 Area of Polygons</b>		
10.1 Area of Triangles	6.EE.A Apply and extend previous understandings of arithmetic to algebraic expressions. 6.G.A Solve real-world and mathematical problems involving area, surface area, and volume.+	
10.2 Area of Parallelograms and Trapezoids	6.G.A Solve real-world and mathematical problems involving area, surface area, and volume.+	
10.3 Area of Other Polygons	6.G.A Solve real-world and mathematical problems involving area, surface area, and volume.+	
10.4 Area of Composite Figures	6.G.A Solve real-world and mathematical problems involving area, surface area, and volume.+	
<b>Chapter 11 Circumference and Area of a Circle</b>		
11.1 Radius, Diameter, and Circumference of a Circle	Not identified as a priority standard. See teaching suggestions noted in the letter.	
11.2 Area of a Circle	6.EE.A Apply and extend previous understandings of arithmetic to algebraic expressions.	
11.3 Real-World Problems: Circles	6.EE.A Apply and extend previous understandings of arithmetic to algebraic expressions.	
<b>Chapter 12 Surface Area and Volume of Solids</b>		
12.1 Nets of Solids	6.G.A Solve real-world and mathematical problems involving area, surface area, and volume.+	Grade 5 Section 15.3
12.2 Surface Area of Solids	6.EE.A Apply and extend previous understandings of arithmetic to algebraic expressions. 6.G.A Solve real-world and mathematical problems involving area, surface area, and volume.+	Grade 5 Section 15.3
12.3 Volume of Prisms	6.EE.A Apply and extend previous understandings of arithmetic to algebraic expressions. 6.G.A Solve real-world and mathematical problems involving area, surface area, and volume.+	Grade 5 Section 15.4 Grade 5 Section 15.5 Grade 5 Section 15.5.a Grade 5 Section 15.5.b

Course 1 Section	Priority Standards	Prior Learning
12.4 Real-World Problems: Surface Area and Volume	6.EE.A Apply and extend previous understandings of arithmetic to algebraic expressions. 6.G.A Solve real-world and mathematical problems involving area, surface area, and volume.+	
<b>Chapter 13 Introduction to Statistics</b>		
13.1 Collecting and Tabulating Data	6.SP.B Summarize and describe distributions.+	
13.2 Dot Plots	Not identified as a priority standard. See teaching suggestions referenced in the letter.	
13.3 Histograms	Not identified as a priority standard. See teaching suggestions referenced in the letter.	
<b>Chapter 14 Measures of Central Tendency</b>		
14.1 Mean	6.SP.B.5 Summarize and describe distributions.+	
14.2 Median	Not identified as a priority standard. See teaching suggestions noted in the letter.	
14.3 Mode	Not identified as a priority standard. See teaching suggestions noted in the letter.	
14.4 Real-World Problems: Mean, Median, and Mode	Not identified as a priority standard. See teaching suggestions noted in the letter.	
<b>Common Core Additional Resources</b>		
Interpreting Quartiles and Interquartile Range	Not identified as a priority standard. See teaching suggestions noted in the letter.	
Understanding Box Plots and Mean Absolute Deviation	Not identified as a priority standard. See teaching suggestions noted in the letter.	

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## Math in Focus © 2012 Course 2

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Course 2 Section	Priority Standards	Prior Learning
<b>Chapter 1 The Real Number System</b>		
1.1 Representing Rational Numbers on the Number Line	7.NS.A Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers.*	Grade 6 Section 1.1
1.2 Writing Rational Numbers as Decimals	7.NS.A Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers.	
1.3 introducing Irrational Numbers	7.NS.A Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers.	
1.4 Introducing the Real Number System	7.NS.A Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers.	
1.5 Introducing Significant Digits	7.NS.A Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers.	
<b>Chapter 2 Rational Number Operations</b>		
2.1 Adding Integers	7.NS.A Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers.	
2.2 Subtracting Integers	7.NS.A Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers.	
2.3 Multiplying and Dividing Integers	7.NS.A Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers.	
<i>2.4 Operations with Integers</i>	<i>7.NS.A Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers.**</i>	
2.5 Operations with Rational Numbers	7.NS.A Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers.	
2.6 Operations with Decimals	7.NS.A Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers.	Grade 6 Section 3.2 Grade 6 Section 3.3
<b>Chapter 3 Algebraic Expressions</b>		
3.1 Adding Algebraic Terms	7.EE.A Use properties of operations to generate equivalent expressions.	
3.2 Subtracting Algebraic Terms	7.EE.A Use properties of operations to generate equivalent expressions.	
3.3 Simplifying Algebraic Expressions	7.EE.A Use properties of operations to generate equivalent expressions.	Grade 6 Section 7.3

Course 2 Section	Priority Standards	Prior Learning
3.4 Expanding Algebraic Expressions	7.EE.A Use properties of operations to generate equivalent expressions.	Grade 6 Section 7.4
3.5 Factoring Algebraic Expressions	7.EE.A Use properties of operations to generate equivalent expressions.	
3.6 Writing Algebraic Expressions	7.EE.A Use properties of operations to generate equivalent expressions.	Grade 6 Section 7.1
3.7 Real-World Problems: Algebraic Reasoning	7.EE.B Solve real-life and mathematical problems using numerical and algebraic expressions and equations.	Grade 6 Section 7.5
<b>Chapter 4 Algebraic Equations and Inequalities</b>		
<i>4.1 Understanding Equivalent Equations</i>	<i>7.EE.B Solve real-life and mathematical problems using numerical and algebraic expressions and equations.</i>	
<i>4.2 Solving Algebraic Equations</i>	<i>7.EE.B Solve real-life and mathematical problems using numerical and algebraic expressions and equations.</i>	Grade 6 Section 8.1
<i>4.3 Real-World Problems: Algebraic Equations</i>	<i>7.EE.B Solve real-life and mathematical problems using numerical and algebraic expressions and equations.</i>	Grade 6 Section 8.4
<i>4.4 Solving Algebraic Inequalities</i>	<i>7.EE.B Solve real-life and mathematical problems using numerical and algebraic expressions and equations.</i>	Grade 6 Section 8.3
<i>4.5 Real-World Problems: Algebraic Inequalities</i>	<i>7.EE.B Solve real-life and mathematical problems using numerical and algebraic expressions and equations.</i>	Grade 6 Section 8.4
<b>Common Core Additional Resources</b>		
<i>Rates and Unit Rates</i>	<i>7.RP.A Analyze proportional relationships and use them to solve real-world and mathematical problems.</i>	Grade 6 Section 5.1
<i>Real-World Problems: Rates and Unit Rates</i>	<i>7.RP.A Analyze proportional relationships and use them to solve real-world and mathematical problems.</i>	Grade 6 Section 5.2
<i>Real-World Problems: Percent</i>	<i>7.RP.A Analyze proportional relationships and use them to solve real-world and mathematical problems.</i>	Grade 6 Section 6.4
<i>Percent of Change</i>	<i>7.RP.A Analyze proportional relationships and use them to solve real-world and mathematical problems.</i>	Grade 6 Section 6.5
<b>Chapter 5 Direct and Inverse Proportion</b>		
<i>5.1 Understanding Direct Proportion</i>	<i>7.RP.A Analyze proportional relationships and use them to solve real-world and mathematical problems.</i>	
<i>5.2 Representing Direct Proportion Graphically</i>	<i>7.RP.A Analyze proportional relationships and use them to solve real-world and mathematical problems.</i>	



Course 2 Section	Priority Standards	Prior Learning
5.3 Solving Direct Proportion Problems	7.RP.A Analyze proportional relationships and use them to solve real-world and mathematical problems.	
5.4 Understanding Inverse Proportion	7.RP.A Analyze proportional relationships and use them to solve real-world and mathematical problems.	
<b>Chapter 6 Angle Properties and Straight Lines</b>		
6.1 Complementary, Supplementary, and Adjacent Angles	Not identified as a priority standard. See teaching suggestions noted in the letter.	
6.2 Angles that Share a Vertex	Not identified as a priority standard. See teaching suggestions noted in the letter.	
6.3 Alternate Interior, Alternate Exterior, and Corresponding Angles	Not identified as a priority standard. See teaching suggestions noted in the letter.	
6.4 Interior and Exterior Angles	Not identified as a priority standard. See teaching suggestions noted in the letter.	
<b>Chapter 7 Geometric Construction</b>		
7.1 Constructing Angle Bisectors	Not identified as a priority standard. See teaching suggestions noted in the letter.	
7.2 Constructing Perpendicular Bisectors	Not identified as a priority standard. See teaching suggestions noted in the letter.	
7.3 Constructing Triangles	Not identified as a priority standard. See teaching suggestions noted in the letter.	
7.4 Constructing Quadrilaterals	Not identified as a priority standard. See teaching suggestions noted in the letter.	
7.5 Understanding Scale Drawings	7.G.A Draw, construct and describe geometrical figures and describe the relationships between them.+	
<b>Common Core Additional Resources</b>		
Area of Composite Figures	7.G.B Solve real-life and mathematical problems involving angle measure, area, surface area, and volume.+	Grade 6 Section 10.4
Radius, Diameter, and Circumference of Circles	Not identified as a priority standard. See teaching suggestions noted in the letter.	
Area of a Circle	Not identified as a priority standard. See teaching suggestions noted in the letter.	
Real-World Problems: Circles	Not identified as a priority standard. See teaching suggestions noted in the letter.	
Real-World Problems: Surface Area and Volumes	7.G.B Solve real-life and mathematical problems involving angle measure, area, surface area, and volume.+	Grade 6 Section 12.4
<b>Chapter 8 Volume and Surface Area of Solids</b>		



Course 2 Section	Priority Standards	Prior Learning
8.1 Recognizing Cylinders, Cones, Spheres, and Pyramids	Not identified as a priority standard. See teaching suggestions noted in the letter.	
8.2 Finding Volume and Surface Area of Cylinders	7.G.B Solve real-life and mathematical problems involving angle measure, area, surface area, and volume.+	
8.3 Finding Volume and Surface Area of Pyramids and Cones	7.G.B Solve real-life and mathematical problems involving angle measure, area, surface area, and volume.+	
8.4 Finding Volume and Surface Area of Spheres	7.G.B Solve real-life and mathematical problems involving angle measure, area, surface area, and volume.+	
8.5 Real-World Problems: Composite Solids	7.G.B Solve real-life and mathematical problems involving angle measure, area, surface area, and volume.+	
<b>Chapter 9 Statistics</b>		
9.1 Interpreting Quartiles and Interquartile Range	Not identified as a priority standard. See teaching suggestions noted in the letter.	
9.2 Stem-and-Leaf Plots	Not identified as a priority standard. See teaching suggestions noted in the letter.	
9.3 Understanding Box Plots and Mean Absolute Deviation	Not identified as a priority standard. See teaching suggestions noted in the letter.	
9.4 Understanding Random Sampling Methods	7.SP.A Use random sampling to draw inferences about a population.+	Grade 6 Section 13.1
9.5 Making Inferences About Populations	7.SP.B Draw informal comparative inferences about two populations.+	
<b>Chapter 10 Probability</b>		
10.1 Defining Outcomes, Events, and Sample Space	7.SP.C Investigate chance processes and develop, use, and evaluate probability models.+	
10.2 Finding Probability of Events	Not identified as a priority standard. See teaching suggestions noted in the letter.	
10.3 Approximating Probability and Relative Frequency	Not identified as a priority standard. See teaching suggestions noted in the letter.	
10.4 Developing Probability Models	Not identified as a priority standard. See teaching suggestions noted in the letter.	
<b>Common Core Additional Resources</b>		
Compound Events	7.SP.C Investigate chance processes and develop, use, and evaluate probability models.+	
Probability of Compound Events	7.SP.C Investigate chance processes and develop, use, and evaluate probability models.+	

Course 2 Section	Priority Standards	Prior Learning
<i>Independent Events</i>	<i>7.SP.C Investigate chance processes and develop, use, and evaluate probability models.+</i>	
<i>Dependent Events</i>	<i>7.SP.C Investigate chance processes and develop, use, and evaluate probability models.+</i>	

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## Math in Focus © 2012 Course 3

Priority standards were identified through Achieve the Core.\*

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Course 3 Section	Priority Standards	Prior Learning
<b>Common Core Additional Resources</b>		
<i>Writing Rational Numbers as Decimals</i>	<i>8.NS.A Know that there are numbers that are not rational, and approximate them by rational numbers.+</i>	<i>Grade 7 Section 1.2</i>
<i>Introducing Irrational Numbers</i>	<i>8.NS.A Know that there are numbers that are not rational, and approximate them by rational numbers.+</i> <i>8.EE.A Work with radicals and integer exponents.**</i>	<i>Grade 7 Section 1.3</i>
<i>Introducing the Real Number System</i>	<i>8.NS.A Know that there are numbers that are not rational, and approximate them by rational numbers.+</i> <i>8.EE.A Work with radicals and integer exponents.</i>	<i>Grade 7 Section 1.4</i>
<b>Chapter 1 Exponents</b>		
1.1 Exponential Notation	8.EE.A Work with radicals and integer exponents.*	
1.2 The Product and Quotient of Powers	8.EE.A Work with radicals and integer exponents.	
1.3 The Power of a Power	8.EE.A Work with radicals and integer exponents.	
1.4 The Power of a Product and the Power of a Quotient	8.EE.A Work with radicals and integer exponents.	
1.5 Zero and Negative Exponents	8.EE.A Work with radicals and integer exponents.	
<i>1.6 Real-World Problems: Squares and Cubes</i>	<i>8.EE.A Work with radicals and integer exponents.</i>	
<b>Chapter 2 Scientific Notation</b>		
2.1 Understanding Scientific Notation	Not identified as a priority standard. See teaching suggestions noted in the letter.	
2.2 Adding and Subtracting in Scientific Notation	<i>8.EE.A Work with radicals and integer exponents.+</i>	
2.3 Multiplying and Dividing in Scientific Notation	<i>8.EE.A Work with radicals and integer exponents.+</i>	
<b>Chapter 3 Algebraic Linear Equations</b>		
<i>3.1 Solving Linear Equations with One Variable</i>	<i>8.EE.C Analyze and solve linear equations and pairs of simultaneous linear equations.</i>	<i>Grade 7 Section 4.2</i>
3.2 Identifying the Number of Solutions to a Linear Equation	8.EE.C Analyze and solve linear equations and pairs of simultaneous linear equations.	

Course 3 Section	Priority Standards	Prior Learning
3.3 Understanding Linear Equations with Two Variables	8.EE.B Understand the connections between proportional relationships, lines, and linear equations.	
3.4 Solving for a Variable in a Two-Variable Linear Equation	8.EE.C Analyze and solve linear equations and pairs of simultaneous linear equations.	
<b>Chapter 4 Lines and Linear Equations</b>		
4.1 Finding and Interpreting Slopes of Lines	8.EE.B Understand the connections between proportional relationships, lines, and linear equations.	
4.2 Understanding Slope-Intercept Form	8.EE.B Understand the connections between proportional relationships, lines, and linear equations.	
4.3 Writing Linear Equations	8.EE.B Understand the connections between proportional relationships, lines, and linear equations.	
4.4 Sketching Graphs of Linear Equations	8.EE.B Understand the connections between proportional relationships, lines, and linear equations.	
4.5 Real-World Problems: Linear Equations	8.EE.B Understand the connections between proportional relationships, lines, and linear equations.	
<b>Chapter 5 Systems of Linear Equations</b>		
5.1 Introduction to Systems of Linear Equations	8.EE.C Analyze and solve linear equations and pairs of simultaneous linear equations.	
5.2 Solving Systems of Linear Equations Using Algebraic Methods	8.EE.C Analyze and solve linear equations and pairs of simultaneous linear equations.	
5.3 Real-World Problems: Systems of Linear Equations	8.EE.C Analyze and solve linear equations and pairs of simultaneous linear equations.	
5.4 Solving Systems of Linear Equations by Graphing	8.EE.C Analyze and solve linear equations and pairs of simultaneous linear equations.	
5.5 Inconsistent and Dependent Systems of Linear Equations	8.EE.C Analyze and solve linear equations and pairs of simultaneous linear equations.	
<b>Chapter 6 Functions</b>		
6.1 Understanding Relations and Functions	8.F.A Define, evaluate, and compare functions. 8.F.B Use functions to model relationships between quantities.	
6.2 Representing Functions	8.F.B Use functions to model relationships between quantities.	
6.3 Understanding Linear and Nonlinear Functions	8.F.A Define, evaluate, and compare functions.	

Course 3 Section	Priority Standards	Prior Learning
<b>Chapter 7 The Pythagorean Theorem</b>		
7.1 Understanding the Pythagorean Theorem and Plane Figures	8.G.B Understand and apply the Pythagorean Theorem.	
7.2 Understanding the Distance Formula	8.EE.A Work with radicals and integer exponents. 8.G.B Understand and apply the Pythagorean Theorem.	
7.3 Understanding the Pythagorean Theorem and Solids	8.G.B Understand and apply the Pythagorean Theorem.	
7.4 Identifying Volumes of Composite Solids	Not identified as a priority standard. See teaching suggestions noted in the letter.	
<b>Common Core Additional Resources</b>		
Complementary, Supplementary, and Adjacent Angles	8.G.A Understand congruence and similarity using physical models, transparencies, or geometry software.+	Grade 7 Section 6.1
Angles that Share a Vertex	8.G.A Understand congruence and similarity using physical models, transparencies, or geometry software.+	Grade 7 Section 6.2
Alternate Interior, Alternate Exterior, and Corresponding Angles	8.G.A Understand congruence and similarity using physical models, transparencies, or geometry software.+	Grade 7 Section 6.3
Interior and Exterior Angles	8.G.A Understand congruence and similarity using physical models, transparencies, or geometry software.+	Grade 7 Section 6.4
Recognizing Cylinders, Cones, Spheres and Pyramids	Not identified as a priority standard. See teaching suggestions noted in the letter.	
Finding Volume and Surface Area of Cylinders	Not identified as a priority standard. See teaching suggestions noted in the letter.	
Finding Volume and Surface Area of Pyramids and Cones	Not identified as a priority standard. See teaching suggestions noted in the letter.	
Finding Volume and Surface Area of Spheres	Not identified as a priority standard. See teaching suggestions noted in the letter.	
Real-World Problems: Composite Solids	Not identified as a priority standard. See teaching suggestions noted in the letter.	
<b>Chapter 8 Geometric Transformations</b>		
8.1 Translations	Not identified as a priority standard. See teaching suggestions noted in the letter.	
8.2 Reflections	Not identified as a priority standard. See teaching suggestions noted in the letter.	
8.3 Rotations	Not identified as a priority standard. See teaching suggestions noted in the letter.	
8.4 Dilations	Not identified as a priority standard. See teaching suggestions noted in the letter.	

Course 3 Section	Priority Standards	Prior Learning
8.5 Comparing Transformations	Not identified as a priority standard. See teaching suggestions noted in the letter.	
<b>Chapter 9 Congruence and Similarity</b>		
9.1 Understanding and Applying Congruent Figures	8.G.A Understand congruence and similarity using physical models, transparencies, or geometry software.+	
9.2 Understanding and Applying Similar Figures	8.G.A Understand congruence and similarity using physical models, transparencies, or geometry software.+	
9.3 Relating Congruent and Similar Figures to Geometric Transformations	8.G.A Understand congruence and similarity using physical models, transparencies, or geometry software.+	
<b>Chapter 10 Statistics</b>		
10.1 Scatter Plots	8.SP.A Investigate patterns of association in bivariate data.+	
10.2 Modeling Linear Associations	Not identified as a priority standard. See teaching suggestions noted in the letter.	
10.3 Two-Way Tables	Not identified as a priority standard. See teaching suggestions noted in the letter.	
<b>Chapter 11 Probability</b>		
11.1 Compound Events	Not identified as a priority standard. See teaching suggestions noted in the letter.	
11.2 Probability of Compound Events	Not identified as a priority standard. See teaching suggestions noted in the letter.	
11.3 Independent Events	Not identified as a priority standard. See teaching suggestions noted in the letter.	
11.4 Dependent Events	Not identified as a priority standard. See teaching suggestions noted in the letter.	

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