

Dimensions Math 6A										
Chapter	Chapter Name	Lesson	Lesson Name	CCSS						
1	Whole Numbers	1	Order of Operations	6.EE.2.C						
		2	Factors and Multiples	6.NS.4						
		3	Multiplication	6.EE.3						
		4	Division	6.NS.2						
2	Fractions	1	Multiplication of Fractions							
		2	Division of Fractions	6.NS.1						
3	Decimals	1	Addition and Subtraction of Decimals	6.NS.3						
		2	Multiplication of Decimals	6.NS.3						
		3	Division of Decimals	6.NS.3						
		4	Metric Measurements and Decimals	6.NS.3						
4	Negative Numbers	1	Positive and Negative Numbers	6.NS.5						
		2	Comparing Positive and Negative Numbers	6.NS.5	6.NS.6	6.NS.6A	6.NS.7	6.NS.7.A	6.NS.7.B	6.NS.7.C
5	Ratios	1	Ratios and Equivalent Ratios	6.RP.3	6.RP.3.D	6.RP.1				
		2	Ratios and Fractions	6.RP.3						
6	Rate	1	Average and Rate	6.RP.3						
		2	Unit Rate	6.RP.2	6.RP.3					
		3	Speed	6.RP.3	6.RP.3.A	6.RP.3.B				
7	Percent	1	Meaning of Percent	6.RP.3.C						
		2	Percentage of a Quantity	6.RP.3.C						

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8	Algebraic Expressions	1	Writing and Evaluating Algebraic Expressions	6.EE.1	6.EE.2	6.EE.2.A	6.EE.2.B	6.EE.2.C	6.EE.6		
		2	Simplifying Algebraic Expressions	6.EE.3	6.EE.4						
9	Equations and Inequalities	1	Equations	6.EE.4	6.EE.5	6.EE.7	8.EE.8.B				
		2	Inequalities	6.EE.5	6.EE.8						
10	Coordinates and Graphs	1	The Coordinate Plane	6.NS.6	6.NS.6B	6.NS.6C	6.NS.8	6.G.3			
		2	Distance between Coordinate Pairs	6.NS.8	6.G.3						
		3	Changes in Quantities	6.RP.3.A	6.RP.3.B	6.EE.7	6.EE.9				
11	Area of Plane Figures	1	Area of Rectangles and Parallelograms	6.G.1							
		2	Area of Triangles	6.G.1							
		3	Area of Trapezoids	6.G.1							
12	Volume and Surface Area of Solids	1	Volume of Rectangular Prisms	6.G.2							
		2	Surface Area of Prisms	6.G.4							
13	Displaying and Comparing Data	1	Statistical Variability	6.SP.1	6.SP.2	6.SP.3	6.SP.4	6.SP.5.A	6.SP.5.B	6.SP.5.C	6.SP.5.D
		2	Displaying Numerical Data	6.SP.2	6.SP.5.B	6.SP.5.D					
		3	Measures of Variability and Box Plots	6.SP.3	6.SP.5.B	6.SP.5.C	6.SP.5.D				
		3D	Box Plot	6.SP.4							

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Chapter	Chapter Name	Lesson	Lesson Name	CCSS					
1	Factors and Multiples	1	Factors and Multiples						
		2	Prime Factorization and Exponential Notation						
		3	Greatest Common Factor (GCF)						
		4	Least Common Multiple (LCM)						
		5	Square Roots and Cube Roots						
2	Real Numbers	1	Idea of Negative Numbers and the Number Line	7.NS.1.A					
		2	Addition and Additive Inverse	7.NS.1	7.NS.1.B	7.NS.1.C			
		3	Subtraction and Absolute Value of the Difference	7.NS.1	7.NS.1.B	7.NS.1.C			
		4	Multiplication, Division, and Combined Operations of Integers	7.NS.2.A					
		5	Rational Numbers	7.NS.1	7.NS.1.D	7.NS.2	7.NS.2.B	7.NS.2.C	7.NS.3
		6	Real Numbers and Use of Calculators	7.NS.2.D					
		7	Rounding Numbers to Decimal Places						
3	Introduction to Algebra	1	The Use of Letters in Algebra						
		2	Evaluation of Algebraic Expressions and Formulas						
		3	Writing Algebraic Expressions to Represent Real-world Situations	7.EE.3	7.EE.4	7.EE.4.A			
4	Algebraic Manipulation	1	Like Terms and Unlike Terms						
		2	Distributive Law, Addition, and Subtraction of Linear Algebraic Expressions	7.EE.1					
		3	Simplification of Linear Algebraic Expressions	7.EE.1					
		4	Factorization by Extracting Common Factors	7.EE.1					
		5	Factorization by Grouping Terms	7.EE.1					
5	Simple Equations in One Variable	1	Simple Linear Equations in One Variable	8.EE.7	8.EE.8.B				
		2	Equations Involving Parentheses	7.EE.1	8.EE.7				
		3	Simple Fractional Equations						
		4	Forming Linear Equations to Solve Problems	7.EE.2					
6	Ratio, Rate, and Speed	1	Ratios Involving Rational Numbers						
		2	Average Rate	7.RP.1					
		3	Speed	6.RP.3.D					
7	Percentage	1	Meaning of Percentage	7.RP.3					
		2	Reverse Percentages	7.RP.3					
		3	Percentage Increase and Decrease	7.RP.3					
		4	Discount and Sales Tax	7.RP.3					
8	Angles, Triangles, and Quadrilaterals	1	Points, Lines, and Planes						
		2	Angles	7.G.5					
		3	Perpendicular Bisectors and Angle Bisectors						
		4	Triangles	7.G.2					
		5	Quadrilaterals	7.G.2					

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Chapter	Chapter Name	Lesson	Lesson Name	CCSS					
9	Number Patterns	1	Number Patterns and Sequences						
		2	General Term of a Sequence						
10	Coordinates and Linear Graphs	1	Cartesian Coordinate System						
		2	Linear Graphs						
		3	Slopes of Linear Graphs						
11	Inequalities	1	Solving Simple Inequalities						
		2	More Properties of Inequalities						
		3	Simple Linear Inequalities						
		4	Applications of Simple Inequalities	7.EE.4.B					
12	Perimeters and Areas of Plane Figures	1	Perimeters and Areas of a Square, a Rectangles, and a Triangle						
		2	Circumference and Area of a Circle	7.G.4					
		3	Area of a Parallelogram						
		4	Area of a Trapezoid						
		5	Perimeters and Areas of Composite Plane Figures						
13	Volumes and Surface Areas of Solids	1	Volumes and Total Surface Areas of a Cube and a Cuboid	7.G.6					
		2	Volume and Total Surface Area of a Prism	7.G.3*	7.G.6				
		3	Volumes and Surface Areas of Composite Solids						
14	Proportions	1	Scale Drawings	7.RP.3	7.G.1				
		2	Map Scale and Calculation of Area	7.RP.3					
		3	Direct Proportion	7.RP.2	7.RP.2.A	7.RP.2.B	7.RP.2.C	7.RP.2.D	7.RP.3
		4	Inverse Proportion	7.RP.2	7.RP.2.A	7.RP.2.B	7.RP.2.C	7.RP.2.D	
15	Data Handling	1	Collection of Data	7.SP.1					
		2	Dot Plots						
		3	Measure of Center: Mean	7.SP.3	7.SP.4				
		4	Measure of Center: Median	7.SP.4					
		5	Mode	7.SP.4					
16	Probability of Simple Events	1	Set Notation						
		2	The Meaning of Probability	7.SP.5	7.SP.6				
		3	Sample Space						
17	Probability of Combined Events	1	Probabilities of Simple Combined Events	7.SP.7	7.SP.7.A	7.SP.7.B	7.SP.8**	7.SP.8.A	7.SP.8.B
		2	Mutually Exclusive Events	7.SP.7.A	7.SP.8**	7.SP.8.B			
		3	Independent Events	7.SP.7.A	7.SP.7.B	7.SP.8**	7.SP.8.B		
		4	Further Probabilities	7.SP.7.A	7.SP.7.B	7.SP.8**	7.SP.8.B		

*Pyramids are not covered Textbook 7B, chapter 13.

**Simulation is not covered in Textbook 7B, Chapter 17.

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Chapter	Chapter Name	Lesson	Lesson Name	CCSS					
1	Exponents and Scientific Notation	1	Positive Exponents and the Laws of Exponents	8.EE.1	8.EE.2				
		2	Zero and Negative Integral Exponents	8.EE.2					
		3	Fractional Exponents	8.EE.1	8.EE.2				
		4	Comparing Exponents						
		5	Scientific Notation	8.EE.3	8.EE.4				
		6	Rounding Numbers to a Specified Number of Significant Figures						
		7	Estimations and Accuracy of Calculators	8.NS.1	8.NS.2				
2	Linear Equations in Two Variables	1	Linear Equations in Two Variables	8.EE.5	8.EE.7	8.EE.7.A	8.EE.7.B		
		2	Solving Simultaneous Linear Equations in Two Variables using the Graphical Method	8.EE.5	8.EE.8	8.EE.8.A	8.EE.8.B	8.SP.3	
		3	Solving Simultaneous Linear Equations in Two Variables using the Substitution Method	8.EE.8	8.EE.8.B				
		4	Solving Simultaneous Linear Equations in Two Variables using the Elimination Method	8.EE.8	8.EE.8.B				
		5	Solving Problems using Simultaneous Equations	8.EE.8.C					
3	Expansion and Factorization of Algebraic Expressions	1	Expansion of the Products of Algebraic Expressions						
		2	Special Products of Algebraic Expressions						
		3	Factorization by using Special Products of Algebraic Expressions						
4	Quadratic Factorization and Equations	1	Factorization of $ax^2 + bx + c$						
		2	Solving Quadratic Equations by Factorization						
		3	Problem Solving Involving Quadratic Equations						
5	Simple Algebraic Fractions	1	Simplifying Simple Algebraic Fractions						
		2	Multiplication and Division of Algebraic Fractions						
		3	Addition and Subtraction of Algebraic Fractions						
		4	Fractional Equations						
		5	More about Formulas						
6	Congruence and Similarity	1	Congruence and Reflections	8.G.1.A	8.G.1.B	8.G.1.C	8.G.2	8.G.3	8.G.4
		2	Translations, Rotations, and Combining Transformations	8.G.1.A	8.G.1.B	8.G.1.C	8.G.2	8.G.3	8.G.4
		3	Similarity	8.G.3	8.G.4				
		4	Enlargements and Similarity	8.G.3	8.G.4				
7	Parallel Lines and Angles in Triangles and Polygons	1	Angles formed by Parallel Lines and Transversals	8.G.5					
		2	Interior and Exterior Angles of a Triangle	8.G.5					
		3	Angle Properties of Special Quadrilaterals						
		4	Polygons						

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8	Graphs of Linear and Quadratic Functions	1	Linear Function	8.EE.5	8.EE.6	8.F.1	8.F.3	8.F.4	8.F.5
		2	Graphs of Quadratic Functions	8.F.3	8.F.5				
9	Graphs in Practical Situations	1	Tables, Charts and Graphs	8.EE.5	8.F.5				
		2	Distance-Time Graphs	8.EE.5	8.F.4	8.F.5			
10	Pythagorean Theorem	1	Pythagorean Theorem	8.G.6	8.G.7	8.G.8			
		2	The Converse of Pythagorean Theorem	8.G.6					
		3	Applications of Pythagoras Theorem	8.G.7					

Chapter	Chapter Name	Lesson	Lesson Name	CCSS					
11	Coordinate Geometry	1	Distance Between Two Points						
		2	Slope of a Straight Line	8.EE.6					
		3	Equation of a Straight Line	8.EE.6					
12	Mensuration of Pyramids, Cylinders, Cones and Spheres	1	Pyramids						
		2	Cylinders	8.G.9					
		3	Cones	8.G.9					
		4	Spheres	8.G.9					
13	Data Analysis	1	Organizing Data in Frequency Tables	8.SP.4					
		2	Bar Graphs and Histograms						
		3	Line Graphs and Scatter Plots	8.SP.1	8.SP.2	8.SP.3			
14	More About Quadratic Equations	1	Solving Quadratic Equations by Factorization						
		2	Completing the Square Method						
		3	Quadratic Formula						
		4	Graphical Method						
		5	Applications of Quadratic Equations						