| Grade Level: | JH 7th and 8th Grade | | | | | |
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| **Subject/Course:** | Pre - Algebra | | | | | |
| **Month/ Quarter** | **Topic** | **Standards** | **Skills** | **Resources/Materials /Activities** | **Key Terminology** | **Assessments** |
| Quarter 1 | Chapter 1 Operations with Integers | 7.EE.3 7.NS.1b 7.NS.1d 7.NS.1c 7.NS.2a 7.NS.2c 7.NS.2b 7.NS.3 | 1.1 Integers and Absolute Value 1.2 Adding Integers 1.3 Subtracting Integers 1.4 Multiplying Integers 1.5 Dividing Integers 1.6 The coordinate Plane | Big Ideas Math Accelerated (2012) Textbook Lessons 1-1 thru 1-6  Note-taking binder  Accelerated Math | -Integers -Absolute Value -Opposites -Additive Inverse -Coordinate Plane -Origin -Quadrants -X-axis -Y-axis | Daily assignments  Quizzes  Chapter Test  Accelerated Math |
| Quarter 1 | Chapter 2  Rational Numbers and Equations | 7.EE.3 7.NS.2b 7.NS.2d 7.NS.1b 7.NS.1c 7.NS.1d 7.NS.2a 7.NS.2c 7.NS.3 7.EE.4a 8.EE.7a 8.EE.7b | 2.1 Rational Numbers 2.2 Adding and Subtracting Rational Numbers 2.3 Multiplying and Dividing Rational Numbers 2.4 Solving Equations using Addition or Subtraction 2.5 Solving Equations using Multiplication or | Big Ideas Math Accelerated (2012) Textbook Lessons 2-1 thru 2-6  Note-taking binder  Accelerated Math | -Terminating Decimal -Repeating Decimal -Rational Number -Equivalent Equations | Daily assignments  Quizzes  Chapter Test  Accelerated Math |

| | | 7.EE.1<br>7.EE.2<br>7.EE.4b | Division<br>2.6 -Solving Two-step Equations | | | |
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| Quarter 1 | Chapter 3  Proportions and Variation | 7.RP.1<br>7.RP.2b<br>8.EE.5<br>7.RP.2a<br>7.RP.2d<br>7.RP.3<br>7.RP.2c | 3.1 Ratios and Rates<br>3.2 Slope<br>3.3 Proportions<br>3.4 Writing Proportions<br>3.5 Solving Proportions<br>3.6 Converting Measures Between Systems<br>3.7 Direct Variation<br>3.8 Inverse Variation | Big Ideas Math Accelerated (2012) Textbook Lessons 3-1 thru 3-8<br><br>Note-taking binder<br><br>Accelerated Math | -Ratio<br>-Rate<br>-Unit Rate<br>-Slope<br>-Proportion<br>-Proportional<br>-Cross Products<br>-U.S. Customary System<br>-Metric System<br>-Direct Variation<br>-Inverse Variation | Daily assignments<br><br>Quizzes<br><br>Chapter Test<br><br>Accelerated Math |
| Quarter 2 | Chapter 4 Percents | 7.EE.3<br>7.RP.3 | 4.1 The Percent Equation<br>4.2 Percents of Increase and Decrease<br>4.3 Discounts and Markups<br>4.4 Simple Interest | Big Ideas Math Accelerated (2012) Textbook Lessons 4-1 thru 4-4<br><br>Note-taking binder<br><br>Accelerated Math | -Percent<br>-Percent of Change<br>-Percent of Increase<br>-Percent of Decrease<br>-Discount<br>-Markup<br>-Interest<br>-Principal<br>-Simple Interest | Daily assignments<br><br>Quizzes<br><br>Chapter Test<br><br>Accelerated Math |
| Quarter 2 | Chapter 5 Similarity and Transformations | 7.G.1<br>7.G.2<br>8.G.1<br>8.G.3<br>8.G.2 | 5.1 Identifying Similar Figures<br>5.2 Perimeters and Areas of Similar Figures<br>5.3 Finding Unknown Measures in Similar Figures<br>5.4 Scale Drawings | Big Ideas Math Accelerated (2012) Textbook Lessons 5-1 thru 5-7<br><br>Note-taking binder<br><br>Accelerated Math | -Similar Figures<br>-Corresponding Angles<br>-Corresponding Sides<br>-Indirect Measurement<br>-Scale Drawing | Daily assignments<br><br>Quizzes<br><br>Chapter Test<br><br>Accelerated |

| | | | 5.5 Translations<br>5.6 Reflections<br>5.7 Rotations | | -Scale Model<br>-Scale<br>-Scale Factor<br>-Transformation<br>-Image<br>-Translation<br>-Reflection<br>-Line of Reflection<br>-Rotation<br>-Center of Rotation<br>-Angle of Rotation | Math |
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| Quarter 2 | Chapter 6 Surface Areas of Solids | 7.G.3<br>7.G.4<br>7.G.6 | 6.1 Drawing 3-D Figures<br>6.2 Surface Areas of Prisms<br>6.3 Surface Areas of Cylinders<br>6.4 Surface Areas of Pyramids<br>6.5 Surface Areas of Cones<br>6.6 Surface Areas of Composite Solids | Big Ideas Math Accelerated (2012) Textbook Lessons 6-1 thru 6-6<br><br>Note-taking binder<br><br>Accelerated Math | -3-D Figures<br>-Polyhedron<br>-Lateral Face<br>-Surface Area<br>-Net<br>-Regular Pyramid<br>-Slant Height<br>-Composite Solid | Daily assignments<br><br>Quizzes<br><br>Chapter Test<br><br>Accelerated Math |
| Quarter 3 | Chapter 7 Volumes of Solids | 7.G.6<br>7.G.4<br>8.G.9 | 7.1 Volume of Prisms<br>7.2 Volume of Pyramids<br>7.3 Volume of Cylinders<br>7.4 Volume of Cones<br>7.5 Volume of Composite Solids<br>7.6 Surface Areas and Volumes of Similar Solids | Big Ideas Math Accelerated (2012) Textbook Lessons 7-1 thru 7-6<br><br>Note-taking binder<br><br>Accelerated Math | -Volume<br>-Similar Solids | Daily assignments<br><br>Quizzes<br><br>Chapter Test<br><br>Accelerated Math |

| Quarter 3 | Chapter 8 Data Analysis and Samples | 7.SP.1<br>7.SP.2<br>7.SP.3 | 8.1 Stem-and-Leaf Plots<br>8.2 Histograms<br>8.3 Circle Graphs<br>8.4 Samples and Populations | Big Ideas Math Accelerated (2012) Textbook Lessons 8-1 thru 8-4<br><br>Note-taking binder<br><br>Accelerated Math | -Stem-and-Leaf Plot<br>-Stem<br>-Leaf<br>-Histogram<br>-Circle Graph<br>-Population<br>-Sample | Daily assignments<br><br>Quizzes<br><br>Chapter Test<br><br>Accelerated Math |
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| Quarter 3 | Chapter 9 Probability | 7.SP.5<br>7.SP.7a<br>7.SP.7b<br>7.SP.6<br>7.SP.8a<br>7.SP.8b<br>7.SP.8c | 9.1 Intro to Probability<br>9.2 Theoretical Probability<br>9.3 Experimental Probability<br>9.4 Independent and Dependent Events | Big Ideas Math Accelerated (2012) Textbook Lessons 9-1 thru 9-4<br><br>Note-taking binder<br><br>Accelerated Math | -Experiment<br>-Outcomes<br>-Event<br>-Probability<br>-Theoretical Probability<br>-Fair Experiment<br>-Experimental Probability<br>-Independent Events<br>-Dependent Events | Daily assignments<br><br>Quizzes<br><br>Chapter Test<br><br>Accelerated Math |
| Quarter 4 | Chapter 10 Linear Equations and Functions | 7.EE.4a<br>8.EE.7a<br>8.EE.7b<br>7.RP.2b<br>8.EE.6 | 10.1 Solving Multi-Step Equations<br>10.2 Solving Equations with Variables on Both Sides<br>10.3 Solving Equations Using Tables and Graphs<br>10.4 Slope of a Line<br>10.5 Linear Functions | Big Ideas Math Accelerated (2012) Textbook Lessons 10-1 thru 10-5<br><br>Note-taking binder<br><br>Accelerated Math | -Slope<br>-Rise<br>-Run<br>-Linear Function<br>-Y-Intercept<br>-Slope-Intercept Form | Daily assignments<br><br>Quizzes<br><br>Chapter Test<br><br>Accelerated Math |
| Quarter 4 | Chapter 11 Angles and Similarity | 7.G.5<br>8.G.5 | 11.1 Classifying Angles<br>11.2 Angles and Sides of Triangles<br>11.3 Angles of | Big Ideas Math Accelerated (2012) Textbook Lessons 11-1 thru 11-5 | -Complementary Angles<br>-Supplementary Angles | Daily assignments<br><br>Quizzes |

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| | | | Polygons<br>11.4 Using Similar Triangles<br>11.5 Parallel Lines and Transversals | Note-taking binder<br><br>Accelerated Math | -Congruent Angles<br>-Vertical Angles<br>-Isosceles Triangle<br>-Congruent Sides<br>-Equilateral Triangle<br>-Equiangular Triangle<br>-Polygon<br>-Regular Polygon<br>-Convex Polygon<br>-Concave Polygon<br>-Similar Triangles<br>-Indirect Measurement<br>-Perpendicular Lines<br>-Interior Angles<br>-Exterior Angles | Chapter Test<br><br>Accelerated Math |
| Quarter 4 | Chapter 12 Radicals and the Pythagorean Theorem | 8.EE.2<br>8.G.6<br>8.G.7<br>8.NS.1<br>8.NS.2<br>8.G.8 | 12.1 Finding Square Roots<br>12.2 The Pythagorean Theorem<br>12.3 Approximating Square Roots<br>12.4 Simplifying Square R0ots<br>12.5 Using the Pythagorean Theorem | Big Ideas Math Accelerated (2012) Textbook Lessons 12-1 thru 12-5<br><br>Note-taking binder<br><br>Accelerated Math | -Square Root<br>-Perfect Square<br>-Radical Sign<br>-Radicand<br>-Theorem<br>-Legs<br>-Hypotenuse<br>-Pythagorean Theorem<br>-Irrational Number<br>-Real Number | Daily assignments<br><br>Quizzes<br><br>Chapter Test<br><br>Accelerated Math |

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| Quarter 4 | Chapter 13 Exponents and Scientific Notation | 8.EE.1 8.EE.3 8.EE.4 | 13.1 Exponents 13.2 Product of Powers Property 13.3 Quotient of Powers Property 13.4 Reading Scientific Notation 13.5 Reading Scientific Notation 13.6 Writing Scientific Notation | Big Ideas Math Accelerated (2012) Textbook Lessons 13-1 thru 13-6<br><br>Note-taking binder<br><br>Accelerated Math | -Power -Base -Exponent -Scientific Notation | Daily assignments<br><br>Quizzes<br><br>Chapter Test<br><br>Accelerated Math |
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