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| Time Frame | Topic/Unit | Skills/Concepts | Major Assessments | Core Standards | Resources |
| 10-11 days12 days10-12 days7 days 8-10 days10 days 14 days 6 days 7 days 6 days 10 Days 6 Days  | **Whole Numbers / Unit 1** * Compute fluently with multi-digit numbers and find common factors and multiples**.**

**F****Fractions / Unit 2*** Apply and extend previous understandings of multiplication and division to divide fractions by fractions.

**Decimals / Unit 3** * Compute fluently with multi-digit numbers and find common factors and multiples.

**Negative Integers / Unit 4*** Apply and extend previous understandings of numbers to the system of rational numbers.

**Algebraic Expressions / Unit 5** * Apply and extend previous understandings of arithmetic to algebraic expressions

**Equations and Inequalities / Unit 6*** Reason about and solve one-variable equations and inequalities.

**Ratios and Rates / Unit 7** * Represent and analyze quantitative relationships between dependent and independent variables.
* Understand ratio concepts and use ratio reasoning to solve problems.
* Use ratio and rate reasoning to solve real-world and mathematical problems.

**Percent / Unit 8*** Find a percent of a quantity as a rate per 100. Solve problems that involve finding the whole given a part and the percent, and finding a part of a whole given the percent.
* Use ratio reasoning to convert measurement units; manipulate and transform units appropriately when multiplying or dividing quantities.

**Area / Unit 9** * Find area of triangles, trapezoids, and other polygons by composing into rectangles or decomposing into triangles and quadrilaterals. Apply these techniques in the context of solving real-world and mathematical problems
* Find volumes of right rectangular prisms with fractional edge lengths in the context of solving real-world and mathematical problems.
* Draw polygons in the coordinate plane given coordinates for the vertices. Use coordinates to find the length of a side joining points with the same first coordinate or the same second coordinate. Apply these techniques in the context of solving real-world and mathematical problems.
* Use area and volume models to explain perfect squares and perfect cubes

**Solids / unit 10*** Represent three-dimensional figures using nets made up of rectangles and triangles, and use the nets to find the surface area of these figures. Apply these techniques in the context of solving real-world and mathematical problems.
* Find volumes of right rectangular prisms with fractional edge lengths in the context of solving real-world and mathematical problems.

**UNIT 11: Statistics** * Display quantitative data in plots on a number line, including dot plots, and histograms.
* Summarize quantitative data sets in relation to their context.
* Relate the range and the choice of measures of center to the shape of the data distribution and the context in which the data were gathered.

**Unit 12: Probability** * Understand that the probability of a chance event is a number between 0 and 1 inclusive, that expresses the likelihood of the event occurring
* Approximate the probability of a simple event by collecting data on the chance process that produces it and observing its long-run relative frequency, and predict the approximate relative frequency given the probability.
* Develop a probability model and use it to find probabilities of simple events. Compare probabilities from a model to observed frequencies; if the agreement is not good, explain possible sources of the discrepancy.
 | * Whole number multiplication and division using standard algorithm
* Factoring and prime numbers
* Greatest Common Factors
* Adding and subtracting fractions
* Multiplying and dividing fractions
* Equivalent fractions
* Fractions of a whole
* Adding and subtracting decimals
* Multiplying and dividing decimals
* Interpreting decimal word problems
* Ordering positive, negative and rational numbers
* Plotting and understanding coordinate planes
* Understanding variables and algebraic expressions
* Order of operations
* Exponents
* Equivalent expressions
* Solving one step equations using addition and subtraction
* Solving one step equations using one step multiplication and division
* Translating into equations.
* Phrases into inequalities
* Using tables to solve ratios
* Equivalent ratios
* Ratios using tape diagrams
* Ratios as fractions
* Ratios as unit rates
* Converting units
* Percent and equivalent ratios
* Finding percent using a product
* Everyday percent word problems
* Find area of rectangles
* Find area of trapezoids
* Find area of triangles
* Find area of parallelograms
* Using area and perimeter using algebra
* Types of solids
* Volumes of right rectangular prisms
* Surface area
* Modeling with volume and surface area
* Statistical operations
* Populations and samples
* Plotting data on histograms
* Measuring median and mean
* Variation, outliers and sampling a population
* Measuring chance with ratios
* Predicting outcomes
* Probability and percent
* Nonuniform Probabilities
 | * Unit 1 Assessment
* Unit 2 Assessment
* Benchmark I
* Unit 3 Assessment
* Benchmark 2
* Unit 4 Assessment
* Benchmark 2
* Unit 5 Assessment
* Benchmark 2
* Unit 6 Assessment
* Benchmark 2
* Unit 7 Assessment
* Unit 8 Assessment
* Unit 9 Assessment
* Unit 10 Assessment
* Unit 11 Assessment
* Unit 12 Assessment
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* NY – 6.RP 3d
* NY 6-G 1
* NY 6 G 3
* NY 6 G 5
* NY 6 G 2
* NY 6 G 4
* NY. 6. SP 1-4
* NY 6 .SP 5-8
 | Emath instruction unit modules , unit assessment, Benchmark IEmath instruction unit 2 lesson plans, unit assessment, Benchmark IEmath instruction unit 3 lesson plans, Unit assessment, quizzes, Benchmark IIEmath instruction unit 4 lesson plans, Unit assessment, quizzes, Benchmark IIEmath instruction unit 5 lesson plans, Unit assessment, quizzes, Benchmark IIEmath instruction unit 6 lesson plans, Unit assessment, quizzes, Benchmark IIEmath instruction unit 7 lesson plans, Unit assessment, quizzes, Benchmark IIEmath instruction unit 8 lesson plans, Unit assessment, quizzes, Benchmark IIEmath instruction unit 9 lesson plans, Unit assessment, quizzes, Emath instruction unit 10 lesson plans, Unit assessment, quizzes, * Emath instruction unit 11 lesson plans, Unit assessment, quizzes.
* Emath instruction unit 12 lesson plans, Unit assessment, quizzes.
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