

Content	Essential questions	Objectives Skills Processes	Vocabulary	Assessment	Resources Chapters / Sections	Standard & Benchmarks	Estimate # of days on Unit
Number Sense, Patterns, and Algebraic Thinking	What are variables and how are they used in everyday math problems?	Identifying and operating with variables in problems involving whole numbers and decimals.	Variable, Variable Base , Exponent , Order of Operations , Equation, Solution, Perimeter, Area	<i>Skills tests</i> each Friday covering the content of the week and 3 weeks past. <i>Application tests</i> at the end of each chapter	Supplimental worksheets, IXL math, and High level thinking problems from the end of each lesson.	Lesson 1.5 - 6.2.3.1 Lesson 1.6 - 6.2.3.1 , 6.3.1.1 , 6.3.1.2 Lesson 1.7 - 6.2.1.1 , 6.2.1.2	Estimated Days (including testing days) = 11 days
Decimal Operations	What are decimals? How are \times , \div , $+$ and $-$ Problems different when dealing with decimals? How do decimals relate with the Metric System?	Identifying and operating with decimals. Converting measurements within the Metric System.	Decimal, Leading Digit, Scientific Notation, Metric System , Meter, Millimeter, Centimeter, Kilometer, Gram, Milligram, Kilogram, Liter, Milliliter, Kiloliter	<i>Skills tests</i> each Friday covering the content of the week and 3 weeks past. <i>Application tests</i> at the end of each chapter	Supplimental worksheets, IXL math, and High level thinking problems from the end of each lesson.	Lesson 2.1 - 6.1.1.1 , 6.1.1.2 Lesson 2.3 - 6.1.3.1 Lesson 2.4 - 6.1.3.1 Lesson 2.6 - 6.3.3.1 , 6.3.3.2 Lesson 2.7 - 6.3.3.1 , 6.3.3.2	Estimated Days (including testing days) = 11 days
Data and Statistics	What are different way to display data and what is the purpose of each display? How do you find the 4 major landmarks of data?	Find the Mean, Median, Mode and Range of a set of data. Arrange data into various graphs, tables, and plots.	Mean, Median , Mode, Range, Bar Graph, Line Graph, Horizontal Axis, Vertical Axis, Stem and Leaf Plot, Frequency Table, Frequency , Histogram.	<i>Skills tests</i> each Friday covering the content of the week and 3 weeks past. <i>Application tests</i> at the end of each chapter	Supplimental worksheets, IXL math, and High level thinking problems from the end of each lesson.	None	Estimated Days (including testing days) = 10 days
Number Patterns and Fractions	What are the meanings, uses and purposes of terms like "prime, composite, factors, GCF, LCM, etc? What are fractions and what forms can they appear in?	Be able to find LCM and GCF of various whole numbers. Convert between different forms of fractions.	Prime Number, Composite Number, Prime Factorization , Factor Tree , Common Factor, Greatest Common Factor , Relatively Prime, Fraction, Numerator, Denominator, Equivalent Fractions, Simplest Form, Multiple, Common Multiple, Least Common Multiple , Least Common Denominator, Mixed Number, Popper Fraction, Improper Fraction, Terminating Decimal, Repeating Decimal.	<i>Skills tests</i> each Friday covering the content of the week and 3 weeks past. <i>Application tests</i> at the end of each chapter	Supplimental worksheets, IXL math, and High level thinking problems from the end of each lesson.	Lesson 4.1 - 6.1.1.5 Lesson 4.2 - 6.1.1.6 Lesson 4.3 - 6.1.2.2 Lesson 4.4 - 6.1.1.6 Lesson 4.5 - 6.1.1.2 Lesson 4.6 - 6.1.3.2 , 6.1.1.7 Lesson 4.7 - 6.1.1.4	Estimated Days (including testing days) = 11 days

Fraction Operations	How are \times , \div , $+$ and $-$ problems different when dealing with fractions? How do fractions relate to the Customary System of measurement?	Convert between fraction forms. Convert between the different levels of the Customary Measurement System	Reciprocal, Customary System, Inch, Foot, Yard, Mile, Ounce, Pound, Ton, Fluid Ounce, Cup, Pint, Quart, Gallon.	<i>Skills tests</i> each Friday covering the content of the week and 3 weeks past. <i>Application tests</i> at the end of each chapter	Supplimental worksheets, IXL math, and High level thinking problems from the end of each lesson.	Lesson 5.1 - 6.1.3.1 Lesson 5.2 - 6.1.3.1 Lesson 5.3 - 6.1.3.1 Lesson 5.4 - 6.1.3.1 Lesson 5.5 - 6.3.3.2 Lesson 5.6 - 6.3.3.1	Estimated Days (including testing days) = 10 days
Integers	What are Integers? Where are integers found in real world problems? What are the properties of problems dealing with rational numbers and variables?	Identify and compare Integers. Place ordered pairs on a coordinate plane. Use properties correctly.	Integer , Negative Integer, Positive Integer, opposite, Absolute Value, Rational Number , Equivalent Expressions, Distributive Property, Coordinate Plane , Origin, Quadrant, Ordered Pair, X-coordinate, Y-coordinate .	<i>Skills tests</i> each Friday covering the content of the week and 3 weeks past. <i>Application tests</i> at the end of each chapter	Supplimental worksheets, IXL math, and High level thinking problems from the end of each lesson.	Lesson 6.1 - 6.1.1.1, 6.1.1.2 Lesson 6.6 - 6.1.1.2, 6.1.1.7 Lesson 6.7 - 6.2.2.1	Estimated Days (including testing days) = 12 days
Equations, Inequalities and Functions	What is the definition of an equation? How are inequally solutions different from equation solutions? What is the definition of a function?	Creating and solving an equation and inequality. Solving and graphing a fuction.	Verbal Model, Terms, Like Terms, Equivalent Variable Expressions, Coefficient, Constant Terms, Inverse Operations, Equivalent Equations, Inequality, Equivalent Inequalities, Function , Input, Output, Domain, Range, Linear Function.	<i>Skills tests</i> each Friday covering the content of the week and 3 weeks past. <i>Application tests</i> at the end of each chapter	Supplimental worksheets, IXL math, and High level thinking problems from the end of each lesson.	Lesson 7.1 - 6.2.1.1, 6.2.3.1 Lesson 7.3 - 6.2.3.2 Lesson 7.4 - 6.2.3.2 Lesson 7.5 - 6.2.3.2 Lesson 7.6 - 6.2.3.1, 6.2.3.2 Lesson 7.7 - 6.2.1.1, 6.2.1.2, 6.2.3.1, 6.2.3.2 Lesson 7.8 - 6.2.1.1, 6.2.1.2	Estimated Days (including testing days) = 12 days
Ratios and Proportions	What is the difference between a ratio and a fraction? How can a proportion be used to solve problems? Where a examples of scale used in the real world?	Represent comparisons using ratios. Solve rate problems using proportions. Create a scale model or blueprint.	Ratio , Equivalent Ratios, Rate, Unit Rate , Slope, Proportion, Cross Products, Scale Drawing, Scale, Scale Model.	<i>Skills tests</i> each Friday covering the content of the week and 3 weeks past. <i>Application tests</i> at the end of each chapter	Supplimental worksheets, IXL math, and High level thinking problems from the end of each lesson.	Lesson 8.1 - 6.1.2.1 Lesson 8.2 - 6.1.2.3, 6.1.2.4 Lesson 8.4 - 6.1.2.3, 6.1.2.4 Lesson 8.6 - 6.1.2.3, 6.1.2.4	Estimated Days (including testing days) = 10 days
Percents	How are percents, decimals and fractions connected? How are concepts like sales tax and interest rates computed?	convert between percents, decimals and fractions. Solve problems using sales tax and simple interest. Create a circle graph using percents and degrees.	Percent , Percent Equation, Circle Graph, Ray, Angle, Vertex, Degrees, Percent of Change, Percent of Increase, Percent of Decrease, Interest, Principal, Simple Interest, Annual Interest Rate, Balance.	<i>Skills tests</i> each Friday covering the content of the week and 3 weeks past. <i>Application tests</i> at the end of each chapter	Supplimental worksheets, IXL math, and High level thinking problems from the end of each lesson.	Lesson 9.1 - 6.1.1.3, 6.1.1.4 Lesson 9.2 - 6.1.2.3, 6.1.2.4 Lesson 9.3 - 6.1.1.4, 6.1.3.1 Lesson 9.4 - 6.1.3.1, 6.1.3.4 Lesson 9.5 - 6.1.3.4 Lesson 9.6 - 6.1.3.3, 6.1.3.4 Lesson 9.7 - 6.1.3.4 Lesson 9.8 - 6.1.3.4	Estimated Days (including testing days) = 12 days

Geometric Figures	What are the names of all plane geometric shapes from 3 - 12 sides? How are Triangles classified? How are transformations used?	Identify plane geometric shapes. Prove degrees of and angle by using angle classifications. Identify transformations.	Angle, Acute, Right, Obtuse, <u>Complementary, Supplementary, Adjacent Angles, Vertical Angles,</u> Congruent Angles, Parallel Lines, Intersecting Lines, Perpendicular Lines, Corresponding Angles, Acute Triangle, Right Triangle, Obtuse Triangle, Congruent Sides, Equilateral Triangle, Isosceles Triangle, Scalene Triangle, Trapezoid, Parallelogram, Rhombus, Pentagon, Hexagon, Heptagon, Octagon, Diagonal, Similar Polygons, Congruent Polygons, Image, Transformations, <u>Translation,</u> Reflection, Rotation, Line of reflection, Center of Rotation, Angle of Rotation, Line of symmetry, Rotational Symmetry.	<i>Skills tests</i> each Friday covering the content of the week and 3 weeks past. <i>Application tests</i> at the end of each chapter	Supplimental worksheets, IXL math, and High level thinking problems from the end of each lesson.	Lesson 10.1 - 6.3.2.1 Lesson 10.2 - 6.3.2.1 Lesson 10.3 - 6.3.2.1, 6.3.2.2	Estimated Days (including testing days) = 12 days
Measurement and Area	How are area and perimeter/circumference different? How is Pythagorean Theorem used?	Find area and perimeter of polygons and circles. Use Pythagorean Theorum correctly.	Square Root, Perfect Square, Square Number, Radical Expression, <u>Irrational Number,</u> Real Number, <u>Hypotenuse, Legs,</u> Pythagorean Theorem, <u>Base,</u> Height, Circle, Center, Radius, Diameter, Circumference,	<i>Skills tests</i> each Friday covering the content of the week and 3 weeks past. <i>Application tests</i> at the end of each chapter	Supplimental worksheets, IXL math, and High level thinking problems from the end of each lesson.	Lesson 11.4 - 6.3.1.2 Lesson 11.5 - 6.3.1.2	Estimated Days (including testing days) = 11 days
Surface Area and Volume	What is the difference between a plane geometric figure and a 3D geometric figure? How are area and surface area similar and different? What is volume?	Name and draw various 3D figures. Find surface area and volume of those 3D figures.	Solid, Prism, Pyramid, Cylinder, Cone, Sphere, Face, Edge, Vertex, Surface Area, Net, Volume.	<i>Skills tests</i> each Friday covering the content of the week and 3 weeks past. <i>Application tests</i> at the end of each chapter	Supplimental worksheets, IXL math, and High level thinking problems from the end of each lesson.	Lesson 12.3 - 6.3.1.1 Lesson 12.5 - 6.3.1.1	Estimated Days (including testing days) = 10 days

Probability	How is probability used in real world applications?	Find the probability of various different events. Define theoretical and experimental probability. Define a permutation and a combination	<u>Outcomes</u> , Event, Favorable <u>Outcomes, Probability</u> , <u>Theoretical Probability</u> , <u>Experimental Probability</u> , <u>Tree Diagram</u> , Permutation, <u>Combination, Independent Events</u> , Dependent Events.	<i>Skills tests</i> each Friday covering the content of the week and 3 weeks past. <i>Application tests</i> at the end of each chapter	Supplimental worksheets, IXL math, and High level thinking problems from the end of each lesson.	Lesson 13.1 - 6.4.1.1, 6.4.1.2, 6.4.1.3 Lesson 13.2 - 6.4.1.1, 6.4.1.2, 6.4.1.3 Lesson 13.3 - 6.4.1.1, 6.4.1.2, 6.4.1.3 Lesson 13.4 - 6.4.1.1, 6.4.1.2, 6.4.1.3	Estimated Days (including testing days) = 10 days
						Standards Not Covered by Curriculum 6.1.3.5, 6.3.1.3, 6.3.2.3, 6.4.1.4,	Total Number of days 144