Grade 6 Focus Calendar / Units of Study
2013 - 2014

Math Grade 6	Unit 1: **Prime Time**	Unit 2: **Bits and Pieces I & CC Invest. 1, 3**	Unit 3: **Data About Us & CC Invest. 5**	Unit 4: **Bits and Pieces II & CC Invest. 2**	Unit 5: **Covering and Surrounding & CC Invest. 4**	Unit 6: **Bits and Pieces III**
Key Skills	• Multiplication • Division • Prime factorization • Least common multiple • Greatest common factor • Square and cubic numbers • Multiples/factors	• Benchmarks in fraction/decimal/ percent equivalents • Converting between fractions/decimals/ percents • Comparing fractions/decimals/ percents • Improper fractions • Mixed Numbers • Place value • Rounding • Number lines • Ratios and rates • Integers • Coordinate planes	• Box and whisker plots • Stem and leaf plots • Histograms • Circle graphs • Bar graphs • Line plots • Coordinate graphs • Categorical/ Numerical data • Mean, median, mode, range	• Review of adding, subtracting, multiplying, and dividing fractions • Dividing fractions • Fact families • Variables • Expressions • Properties of operations • Symbolic rules • Symbolic algebra • Linear and nonlinear functions	• Representing 3-dimensional figures • Using nets • Finding area, volume, perimeter, circumference • Parallelograms, rectangular prisms and triangles • Similar and congruent shapes • Symmetry	• Adding, subtracting, multiplying, and dividing with decimal numbers • Estimating results of operations on decimals • Develop algorithms for solving a variety of percent problems
Academic Vocabulary	• Identify • Use • Understand the relationship • Develop ways to model • Develop strategies • Decompose	• Understand and use • Compare and order • Build an understanding • Develop ways to model • Develop and use	• Understand and use • Represent • Compute • Distinguish	• Use strategies • Use benchmarks to estimate • Use knowledge to develop algorithms • Solve problems • Use estimates to make decisions • Determine proportionality • Write, read and evaluate	• Draw • Use • Apply • Understand • Recognize • Make tables • Use tables • Develop relationships • Discover relationships	• Estimate • Compute • Recognize • Develop • Use knowledge to develop algorithms • Use estimates to make decisions
Other Academic Vocabulary	• Mathematical properties • Whole number • GCF	• Fraction • Decimal • Percent • Benchmark	• Circle graphs • Stem and leaf plots • X axis/y axis • Horizontal/ vertical	• Symbolic algebra • Expression/ equations • Independent/	• Area • Perimeter • Polygons • Volume	• Decimals • Fractions • Percents • Place value

	• LCM • Factors • Multiples • Prime/Composite • Square/Cubic numbers	• Equivalent • Number line • Millions • Thousandths • Ratios/rates • Positive numbers • Rational numbers • Coordinate plane • Coordinate pairs • Absolute value • Quadrants	axis • Measures of center	dependent variables • Reciprocal • Sum, difference, product, quotient • Algorithm • Mixed number • Improper fraction • Fact family	• Prism • Surface area • Nets	• Estimating • Sum, difference, product, quotient
Reading/Writing Skills	• Reflections: constructed response and summarization • Venn Diagrams	• Reflections: constructed response and summarization • Describing strategies to compare/contrast	• Reflections: constructed response and summarization • Drawing conclusions • Making inferences • Making predictions • Interpret and analyze • Compare/contrast • Cause/effect	• Reflections: constructed response and summarization • Describe strategies for solving problems • Finding patterns and describing the process	• Reflections: constructed response and summarization • Compare/contrast • Analyze shapes by attributes • Descriptive writing of explanation process	• Reflections: constructed response and summarization • Describe strategies for solving problems • Finding and describe patterns • Making predictions • Making inferences
Science Skills	• Rate of change	• Graphing data • Finding averages (mean) • Graphing rational numbers	• Graphing data	• Rate of change • Independent and dependent variables	• Finding volume • Measurement skills • Customary/metric units	• Add, subtract, multiply, and divide multi-digit numbers including decimals (calculating for measurements)
Power Standards/GLEs Assessed	PS: 6N1Aa CCSS: 6.NS	PS: 6N1Ab, 6N1B, 6RP1-3	PS: 6D1C, 6D2A CCSS: 6.SP	PS: 6N3Ca, N3Cb, 6A2A CCSS: 6.RP, 6.NS, 6.EE	PS: 6M2C CCSS: 6.G	PS: 6N3Cb CCSS: 6.NS
Activity	Unit project: Special # project	Unit project: Benchmark timeline of their life	Unit project: "Is anyone typical?"	Unit project: Construct an image on a coordinate grid with a defined number of ordered pairs	Unit project: Make their own shape and present its attributes to the class	Unit project: Ordering from a catalog
Approximate Instruction Dates	4 Weeks	8 Weeks	4 Weeks	7 Weeks	6 Weeks	5 Weeks

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