5th Grade Math

1st Nine Weeks

Whole Number Operations

- Estimate to determine solutions
- Multiply with fluency 3-digit by 2-digit
- Divide 4-digit dividend by 2-digit divisor
- Represent multiplication with objects and models
- Represent division using objects and models

Decimal Operations

- Decimals through thousandths
- Rounding decimals to tenths and hundredths
- Estimate to determine solutions
- Compare and order decimals to thousandths using $>, <, or\ =$
- Add and subtract decimals fluently
- Solve for products of decimals to hundredths
- Solve for quotients of decimals to hundredths

2nd Nine Weeks

Order of Operations/Simple Equations

- Simplify numerical expressions with 2 levels grouping GEMDAS without "e"
- Describe meaning of parentheses and brackets in expressions
- Represent/solve whole number equations

Adding and subtracting fractions

- Add and subtract fractions fluently
- Identify prime and composite numbers
- Add and subtract fractions with unequal denominators using objects and models
- Estimate to determine solutions when add and subtract fractions

Multiplying and dividing fractions

- Divide whole numbers by unit fractions and unit fractions by whole numbers
- Represent division of a unit fraction and a whole number and division of a whole number by a unit
- Represent and solve multiplication of a whole number and a fraction

3rd Nine Weeks

Graphing on a Coordinate Plane

- Describe key attributes of coordinate plane axes, origin.
- Graph in the first quadrant of the coordinate plane and describe process for graphing coordinate points
- Generate a numerical pattern when given a rule of y=ax or y= x+a
- Distinguish between additive and multiplicative patterns

Geometry, Measurement and Conversions

- Classify 2D figures using graphic organizers
- Represent and solve problems related to perimeter, area and volume
- Use objects and models to develop formulas for volume of a prism and cube
- Define a unit cube and describe its relationship to volume
- Determine volume using area of base times the number of layers

Data Analysis/Personal Financial Literacy

- Convert within a measurement system (metric or customary)
- Solve one-and two step problems using data from a frequency table, dot plot, bar graph, stem and leaf plot or scatterplot
- Different methods of payment including check, credit card, debit card, and electronic payments
- System for keeping and using financial records
- Define income tax, payroll tax, sales tax and property tax

4th Nine Weeks

STAAR BLITZ

- Review targeted TEKS from assessed curriculum
- Utilize data from benchmark to identify weaknesses.
- Close gaps.

STAAR EXAM April 7

Bridge to 6th grade

Rational Numbers & Operations

- Classify rational numbers
- Add and Subtract decimals
- Add and Subtract fractions
- Multiply and Divide decimals
- Multiply and Divide fractions
- Mixed Practice

Fraction, Decimal, Percent or FDP Conversions

- Model benchmark fractions using 100 grids and strips
- Convert FDP
- Compare FDP
- Order FDP

5th Grade Math Advanced

1st Nine Weeks

Decimals

- Decimals through thousandths
- Rounding decimals to tenths and hundredths
- Estimate to determine solutions
- Compare and order decimals to thousandths using $>, <, or\ =$
- Add and subtract decimals fluently

Decimal Operations

- Estimate to determine solutions
- Multiply with fluency 3-digit by 2-digit
- Divide 4-digit dividend by 2-digit divisor
- Represent multiplication with objects and models
- Represent division using objects and models
- Solve for products of decimals to hundredths
- Solve for quotients of decimals to hundredths

Integers

- Add, subtract, multiply and divide integers fluently
- Classify whole numbers, integers and rational numbers to describe relationships between sets of numbers
- Represent integer operations with concrete models
- Identify a number, its opposite and its absolute value

Red is 6th grade accelerated material.

2nd Nine Weeks

Fraction Operations

- Add and subtract fractions fluently
- Identify prime and composite numbers
- Add and subtract fractions with unequal denominators using objects and models
- Estimate to determine solutions when add and subtract fractions
- Recognize that dividing by a rational number and multiplying by its reciprocal results in the same value
- Determine whether a quantity is decreased or increased when multiplied by fraction >1 and <1.

Algebra Expressions and Equations

- Simplify numerical expressions with 2 levels grouping GEMDAS without "e"
- Describe meaning of parentheses and brackets in expressions
- Represent/solve whole number equations
- Use order operations and prime factorization to generate equivalent expressions
- Use properties of operations including identity, commutative, associative and distributive to generate equivalent expressions

3rd Nine Weeks

Patterns and Graphing

- Describe key attributes of coordinate plane axes, origin.
- Graph in the first quadrant of the coordinate plane and describe process for graphing points
- Generate a numerical pattern when given a rule of y=ax or y= x+a
- Distinguish between additive and multiplicative patterns
- Compare two rules verbally, numerically, graphically and symbolically to determine relationship is additive or multiplicative
- Graph points in all 4 quadrants
- Extend previous knowledge of triangles and their properties

Geometry and Measurement

- Solve problems related to perimeter, area and volume
- Use models to develop formulas for volume of a prism and cube
- Define a unit cube and describe its relationship to volume
- Determine volume using area of base times the number of layers
- Convert units within a measurement system including proportions and unit rates
- Model area formulas for parallelograms, trapezoids, and triangles

Data and Statistics

- Solve one-and two step problems using data from a frequency table, dot plot, bar graph, stem and leaf plot or scatterplot
- Represent data using dot plots, stem and leaf plots, histograms and box plots

4th Nine Weeks

STAAR BLITZ

- Review targeted TEKS from assessed curriculum
- Utilize data from benchmark to identify weaknesses.
- Close gaps.

STAAR EXAM April 7

Bridge to 6th grade PAP

- Represent ratios and percents with concrete models, fractions and decimals
- Represent benchmark fractions and percents using 100 grids, strip diagrams, number lines and numbers
- Use equivalent fractions, decimals and percents to show equal parts of the same whole
- Generate equivalent forms of fractions, decimals and percents using real world problems
- Summarize categorical data with number and graph summaries including relative frequency tables and percent bar graphs
- Ratios vs Rates
- Demonstrate ratios and rates using scale factor, table, graph and proportional reasoning