7th Grade Math

1st Nine Weeks

Rational Numbers (18 days)

- Solve problems using addition, subtraction, multiplication and division of rational numbers
- Describe relationships between sets of rational numbers
- Calculate sales tax and income tax for earned wages
- Create an asset and liabilities record and a net worth statement

Proportional Relationships (17 days)

- Represent constant rates of change given table, graph and algebraic representations
- Solve problems involving ratios, rates and percent
- Calculate unit rates from rates
- Determine constant of proportionality
- Convert between measurement systems using proportions and unit rates
- Identify components of a personal budget, including income, college savings, retirement and emergencies.
- Graph solutions of equations/inequalities on number lines.

CBA₁

2nd Nine Weeks Proportionality and Percent (14 days)

- Add, subtract, multiply and divide rational numbers
- Calculate simple interest
- Solve problems involving ratios, rates and percent.
- Analyze and compare sales, rebates and coupons.

Proportionality and Geometry (10 days)

- Solve problems involving similar shape and scale drawings.
- Describe critical attributes of similarity.

<u>Proportionality and Probability</u> (15 days)

- Solve problems using predictions from simple experiments
- Determine experimental and theoretical probability using data and sample spaces
- Represent sample spaces using lists and tree diagrams
- Make predictions and determine solutions using experimental data for simple and compound events
- Make predictions and determine solutions using theoretical probability for simple and compound events
- Find probability of a simple event and its complement
 CBA 2

3rd Nine Weeks

Multiple Relationships of Linear Relationships (9 days)

- Represent constant rates of change given table, graph, algebraic representation
- Represent linear relationships using verbal description, table, graph and equations
- Determine the constant of proportionality from math and real-world problems

Equations and Inequalities (15 days)

- Model and solve one-variable two-step equations and inequalities
- Write one-variable two-step equations and inequalities to represent problems
- Represent solutions on number lines
- Given an equation or inequality, write a real-world problem
- Determine if a given value makes an equation true.

<u>Develop Geometry through</u> Algebra (23 days)

- Determine the area of composite figures without circles
- Write and solve equations using geometry concepts
- Solve problems involving surface area (lateral and total) using a shape's net.
- Solve problems involving volume

4th Nine Weeks <u>Develop Geometry through</u> Algebra (5 days)

- Circumference and area of circles
- Sum of angles in a triangle and angle relationships
- Relationship between volume of a prism and pyramid with the same base. (Rectangle and Triangle)
- Describe pi
- Determine area of composite figures with circles

Statistics (10 days)

- Measures of Central Tendency
- Box plots including shape, symmetry, and spread
- Interquartile Range
- Comparison/Analysis of 2 box plots
- Dot plots including shape, symmetry, center and spread
- Comparison of dot plots
- Bar graphs
- Circle graphs
- Random sampling including populations, informal and comparative inferences

Pre-STAAR Benchmark April 17

STAAR Review (13 days)

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

STAAR EXAM on May 14

Abbreviated Bridge to 8th grade

• Targeted teaching to prepare students for 8th grade

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