**A. Numbers and Operations**

**1. Use Whole number operations to solve problems**

a. Compare whole numbers

b. Add/Subtract/Multiply/Divide Whole Numbers

c. Use correct order of operations

**2. Use fractional number operations to solve problems**

a. Compare and order of operations

b. Add/Subtract/Multiply/Divide Fractions

c. Make appropriate conversions between whole numbers, fractions, mixed numbers, decimals and percentages

**3. Use decimal numbers operations to solve problems**

a. Compare and order of decimals

b. Add/Subtract/Multiply/Divide Decimals

c. Make appropriate conversions between whole numbers, fractions, mixed numbers, decimals and percentages

d. Determine acceptable degree of accuracy and correctly round a decimal

**4. Solve problems using percentages**

**5. Solve problems using ratio and portion**

**6. Use signed numbers, powers and roots to solve problems**

a. Compare, order, perform operations with signed numbers

b. Perform operations of powers and roots

**7. Determine the reasonableness of a solution**

**8. Utilize the appropriate technology to perform mathematical operations**

**B. Algebraic Relationships**

1. **Solve problems using equations**

a. Evaluate and simplify expressions

b. Solve simple algebraic equations

c. Express work statements as math

**2. Solve problems using formulas**

a. Choose appropriate formula

b. Determine the effects of variable

**C. Geometric and Spatial Relationships**

1. **Apply geometric principles in problem solving**
   1. Draw or use visual models to represent
   2. Use the Pythagorean theorem
   3. Find the perimeter, area and volume of
2. **Use trigonometric relationships with right and angle measures**

**D. Measurement**

1. **Utilize the appropriate measurement tools**
2. **Determine the precision and accuracy of measurement**
3. **Convert to appropriate units of measure**
4. **Data and Probability.**
5. **Select, interpret, and create appropriate graphical representations of data (i.e. Charts, diagrams, bar graphs, line graphs, circle graphs)**
6. **Calculate measures of central tendency (i.e. Mean, median, mode)**