DAVIS ESSENTIAL SKILLS AND KNOWLEDGE

Sixth Grade Mathematics

Refer to the Utah State Mathematics Standards for more detail

Mathematical Practices

1. Make sense of problems and persevere in solving them
2. Reason abstractly and quantitatively
3. Construct viable arguments and critique the reasoning of others
4. Model with mathematics
5. Use appropriate tools strategically
6. Attend to precision
7. Look for and make use of structure
8. Look for and express regularity in repeated reasoning

The Number System

a. Apply and extend previous understanding of multiplication and division of whole numbers to divide fractions by fractions.
b. Compute (add, subtract, multiply, and divide) accurately, efficiently, and flexibly with multi-digit numbers and decimals and find common factors and multiples.

Expressions and Equations

a. Apply and extend previous understandings of arithmetic to algebraic expressions involving exponents and variables.
b. Reason about and solve one-variable equations and inequalities.
c. Represent and analyze quantitative relationships between dependent and independent variable in a real-world context.

Ratios and Proportional Relationships

a. Understand ratio concepts and use ratio reasoning to solve problems.

Geometry

a. Solve real-world and mathematical problems involving area, surface area, and volume.

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Statistics and Probability

a. Develop understanding of statistical variability of data.
b. Summarize and describe distributions.