



# Third 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

## Operations and Algebraic Thinking

- a. Represent and solve problems involving multiplication and division within 100.
- b. Demonstrate understanding of the properties of multiplication and the relationship between multiplication and division.
- c. Students use the four operations to identify and explain patterns in arithmetic.

## Number and Operations in Base Ten

- a. Use place value understanding and properties of operations to perform multi-digit arithmetic.

## Number and Operations- Fractions

- a. Develop understanding of fractions as numbers (denominators 2, 3, 4, 6, and 8).

## Measurement and Data

- a. Solve problems involving measurement and estimation of intervals of time, liquid volumes, and masses of objects.
- b. Represent and interpret data.
- c. Understand concepts of area to multiplication and addition.
- d. Recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.



# DAVIS ESSENTIAL SKILLS AND KNOWLEDGE

## Geometry

- a. Reason with shapes and their attributes.