

Essential skills and knowledge for this Davis School District course

The DESK includes both content standards which provide a clear progression of grade level math content and practice standards which provide a framework for putting that content into practice. The content and practice standards must be integrated in order to have successful math instruction. The content standards allow Davis students to gain necessary mathematical knowledge and skills. The mathematical practices are the foundation for mathematical thinking and practice. Both are embedded in everyday mathematics instruction so students can make sense of and apply the math they are learning.

Mathematical Practices

- a. Make sense of problems and persevere in solving them
- b. Reason abstractly and quantitatively
- c. Construct viable arguments and critique the reasoning of others
- d. Model with mathematics
- e. Use appropriate tools strategically
- f. Attend to precision
- g. Look for and make use of structure
- h. Look for and express regularity in repeated reasoning

Number and Operations in Base Ten:

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

Operations and Algebraic Thinking:

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

Number and Operations – Fractions:

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

Measurement and Data: continued on next page

- a. Solve problems involving measurement and estimation of intervals of time, liquid volumes, and masses of objects
- b. Represent and interpret data

Third Grade Math

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Measurement and Data: continued

- a. Understand concepts of area and relate area to multiplication and addition
- b. Recognize perimeter as an attribute of plane figures and distinguish between linear and area measures

Geometry:

- a. Reason with shapes and their attributes

