

### *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

#### **Operations and Algebraic Thinking:**

- a. Represent and solve problems involving addition and subtraction within 100
- b. Demonstrate accuracy, efficiency, and flexibility when adding and subtracting within 20
- c. Work with equal groups of objects to gain foundations for multiplication

#### **Number and Operations in Base Ten:**

- a. Understand place value to 1,000
- b. Use place value understanding and properties of operations to add and subtract

#### **Measurement and Data:**

- a. Measure and estimate lengths in standard units
- b. Relate addition and subtraction to length
- c. Work with time and money
- d. Represent and interpret data

#### **Geometry:**

- a. Reason with shapes and their attributes