

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

Counting and Cardinality:

- a. Know number names and the counting sequence
- b. Count to tell the number of objects
- c. Identify and compare quantities of objects and numerals

Operations and Algebraic Thinking:

- a. Understand addition as putting together and adding to, and understand subtraction as taking apart and taking from

Number and Operations in Base Ten:

- a. Compose and decompose numbers 11-19 to gain foundations for place value

Measurement and Data:

- a. Describe and compare measureable attributes of objects
- b. Classify objects and count the number of objects in each category

Geometry:

- a. Identify and describe shapes, including squares, circles, triangles, rectangles, hexagons, cubes, cones, cylinders, and spheres
- b. Analyze, compare, create, and compose shapes