

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

The Number System:

- a. Apply and extend previous understandings 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
- c. Apply and extend previous understandings of numbers to the system of rational numbers

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 variables in a real-world context

Ratios and Proportional Relationships:

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

Sixth Grade Math

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Geometry:

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

Statistics and Probability:

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

