

Instruction

Mathematics Instruction

The Board of Education encourages students to enroll and be successful in courses that are rigorous. The mathematics progressively develops the knowledge and skills students will need to succeed in college and career. The District's mathematics program shall be designed to teach mathematical concepts in the context of real-world situations and to help students gain a strong conceptual understanding, a high degree of procedural skill and fluency, and ability to apply mathematics to solve problems.

The Superintendent or designee shall develop for each grade level, the Board shall adopt the California academic content and performance standards for mathematics or select curricula that are aligned with these standards and the state curriculum framework.

The District's mathematics program shall address the following standards for mathematical practices which are the basis for mathematics instruction and learning:

1. Overarching habits of mind of a productive mathematical thinker: Making sense of problems and persevering in solving them; attending to precision
2. Reasoning and explaining: Reasoning abstractly and quantitatively; constructing viable arguments and critiquing the reasoning of others
3. Modeling and using tools: Modeling with mathematics; using appropriate tools strategically
4. Seeing structure and generalizing: Looking for and making use of structure; looking for and expressing regularity in repeated reasoning

For grades K-8, content shall address, at appropriate grade levels, counting and cardinality, operations and algebraic thinking, number and operations in base ten, fractions, measurement and data, geometry, ratios and proportional relationships, functions, expression and equations, the number system, and statistics and probability. Students shall learn the concepts and skills that prepare them for the rigor of higher mathematics.

For higher mathematics, the District shall offer a pathway of courses through which students shall be taught concepts that address number and quantity, algebra, functions, modeling, geometry, and statistics and probability.

The Superintendent or designee shall ensure that all students have many opportunities to take the full range of mathematics course options. The Superintendent or designee shall ensure that students are appropriately placed in mathematics courses and are not required to repeat a course that they have successfully completed in an earlier grade level. Placement decisions shall be based on consistent protocols and multiple academic measures. Students who may fail to meet performance standards shall receive additional assistance and intervention.

BP 6142.92(b)

The Superintendent or designee shall ensure that certificated staff have opportunities to participate in professional development activities designed to increase their knowledge and skills in effective mathematics teaching practices.

Students shall have access to sufficient textbooks and instructional materials, including manipulatives and technology, to support a balanced standards aligned mathematics program.

Legal Reference:

EDUCATION CODE

51210 Areas of study, grades 1- 6

51220 Areas of study, grades 7-12

51224.5 Algebra in course of study for grades 7-12

51224.7 California Mathematics Placement Act of 2015

51225.3 High school graduation requirements

51284 Financial literacy

60605 State-adopted content and performance standards in core curricular areas

Adopted: (7-96 3-08) 8-16

ORANGE UNIFIED SCHOOL DISTRICT
Orange, California