

Policy 6142.92: Mathematics Instruction**Original Adopted Date: 2/14/2024**

The Governing Board desires to offer a rigorous mathematics program that 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.

For each grade level, the Board shall adopt academic standards for mathematics that meet or exceed the Common Core State Standards. The Superintendent or designee shall develop 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

In addition, the program shall be aligned with grade-level standards for mathematics content.

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 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.

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.

The Superintendent or designee shall ensure that students have access to sufficient instructional materials, including manipulatives and technology, to support a balanced, standards-aligned mathematics program.

The Superintendent or designee shall provide the Board with data from state and district mathematics assessments and program evaluations to enable the Board to monitor program effectiveness.

Policy Reference Disclaimer:

These references are not intended to be part of the policy itself, nor do they indicate the basis or authority for the board to enact this policy. Instead, they are provided as additional resources for those interested in the subject matter of the policy.

State	Description
Ed. Code 51210	Course of study for grades 1-6
Ed. Code 51220	Course of study for grades 7-12
Ed. Code 51224.5	Algebra in course of study for grades 7-12
Ed. Code 51224.7	California Mathematics Placement Act of 2015
Ed. Code 51225.3	High school graduation requirements
Ed. Code 51284	Financial literacy
Ed. Code 60605	State-adopted content and performance standards in core curricular areas
Ed. Code 60605.8	Common Core standards
Management Resources	Description
California Department of Education Publication	Mathematics Framework for California Public Schools: Kindergarten Through Grade Twelve, 2013
California Department of Education Publication	California Common Core State Standards: Mathematics, rev. January 2013
Common Core State Standards Initiative Publication	Appendix A: Designing High School Mathematics Courses Based on the Common Core State Standards
CSBA Publication	Governing to the Core, Governance Briefs
Website	CSBA District and County Office of Education Legal Services
Website	Common Core State Standards Initiative
Website	CSBA
Website	California Department of Education

Cross References

Code	Description
0440	District Technology Plan
0440	District Technology Plan
0460	Local Control And Accountability Plan

0460	<u>Local Control And Accountability Plan</u>
0500	<u>Accountability</u>
1312.2	<u>Complaints Concerning Instructional Materials</u>
1312.2	<u>Complaints Concerning Instructional Materials</u>
1312.2-E(1)	<u>Complaints Concerning Instructional Materials</u>
1312.4	<u>Williams Uniform Complaint Procedures</u>
1312.4-E(1)	<u>Williams Uniform Complaint Procedures</u>
1312.4-E(2)	<u>Williams Uniform Complaint Procedures</u>
4131	<u>Staff Development</u>
4331	<u>Staff Development</u>
5148.2	<u>Before/After School Programs</u>
5148.2	<u>Before/After School Programs</u>
6011	<u>Academic Standards</u>
6120	<u>Response To Instruction And Intervention</u>
6141	<u>Curriculum Development And Evaluation</u>
6141	<u>Curriculum Development And Evaluation</u>
6141.4	<u>International Baccalaureate Program</u>
6142.93	<u>Science Instruction</u>
6143	<u>Courses Of Study</u>
6143	<u>Courses Of Study</u>
6146.1	<u>High School Graduation Requirements</u>
6152.1	<u>Placement In Mathematics Courses</u>
6152.1	<u>Placement In Mathematics Courses</u>
6161.1	<u>Selection And Evaluation Of Instructional Materials</u>
6161.1	<u>Selection And Evaluation Of Instructional Materials</u>
6161.1-E(1)	<u>Selection And Evaluation Of Instructional Materials</u>
6161.11	<u>Supplementary Instructional Materials</u>
6162.5	<u>Student Assessment</u>
6162.51	<u>State Academic Achievement Tests</u>
6162.51	<u>State Academic Achievement Tests</u>
6163.1	<u>Library Media Centers</u>
6172	<u>Gifted And Talented Student Program</u>
6172	<u>Gifted And Talented Student Program</u>

6176	<u>Weekend/Saturday Classes</u>
6179	<u>Supplemental Instruction</u>
6190	<u>Evaluation Of The Instructional Program</u>