Status: ADOPTED

Policy 6142.93: Science Instruction

Original Adopted Date: 10/01/1995 | Last Revised Date: 05/01/2017 | Last Reviewed Date: 05/01/2017

The Governing Board believes that science education should focus on giving students an understanding of the biological and physical aspects of science, key scientific concepts, and methods of scientific inquiry and investigation. Students should become familiar with the natural world and the interrelationship of science, mathematics, technology, and engineering. As part of science instruction, students should learn how to apply scientific knowledge and reasoning.

Philosophical and religious theories that are based, at least in part, on faith and are not subject to scientific test and refutation shall not be discussed during science instruction.

The district's academic standards for science instruction shall meet or exceed the California Next Generation Science Standards (CA-NGSS). The Superintendent or designee shall ensure that curricula used in district schools are aligned with these standards and the state curriculum framework.

The Superintendent or designee shall ensure that students have access to and are enrolled in a broad course of study including science courses.

The Superintendent or designee shall provide certificated staff with opportunities to participate in professional development activities designed to enhance their knowledge of district-adopted academic standards, instructional strategies for teaching science, and changes in scientific theories.

The Superintendent or designee shall develop and implement appropriate safety measures for science laboratory classes, including, but not limited to, staff and student safety training, use of eye safety devices, hearing protection, first aid procedures, regular equipment maintenance, safe use of heat sources, safe use and disposal of hazardous chemicals, proper ventilation, prevention of exposure to bloodborne pathogens from sharp instruments, fire prevention and control, an emergency response plan, and evacuation procedures. Parents/guardians shall be informed of the types of science laboratory activities that will be conducted and encouraged to sign consent forms for their child's participation.

The Superintendent or designee shall regularly report to the Board regarding the implementation and effectiveness of the science curriculum at each grade level. At a minimum, each report shall address the extent to which the program is aligned with the CA-NGSS, any applicable student assessment results, and feedback from students, parents/guardians, and staff regarding the program.

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 5 CCR 14030	Description Preliminary procedure, planning and approval of school facilities
8 CCR 5191	Chemical hygiene plan
Ed. Code 32030-32034	Eye safety
Ed. Code 32255-32255.6	Student's right to refrain from harmful or destructive use of animals
Ed. Code 33475-33475.5	Model curriculum on stem cell science
Ed. Code 49340-49341	Hazardous substances education
Ed. Code 51210	Course of study for grades 1-6
Ed. Code 51210.3	Elementary science coach
Ed. Code 51220	Course of study for grades 7-12
Ed. Code 51225.3	High school graduation requirements
Ed. Code 52060-52077	Local control and accountability plan
Ed. Code 60640-60648.5	California Assessment of Student Performance and Progress
Ed. Code 8774	Residential outdoor science program
Ed. Code 8774 Management Resources California Department of Education Publication	Description
Management Resources California Department of Education	Description Next Generation Science Standards Systems
Management Resources California Department of Education Publication California Department of Education	Description Next Generation Science Standards Systems Implementation Plan for California, 2014 Science Safety Handbook for California Public Schools,
Management Resources California Department of Education Publication California Department of Education Publication California Department of Education	Description Next Generation Science Standards Systems Implementation Plan for California, 2014 Science Safety Handbook for California Public Schools, 2014
Management Resources California Department of Education Publication California Department of Education Publication California Department of Education Publication California Department of Education California Department of Education	Description Next Generation Science Standards Systems Implementation Plan for California, 2014 Science Safety Handbook for California Public Schools, 2014 California Next Generation Science Standards, 2013 Science Framework for California Public Schools:
Management Resources California Department of Education Publication Publication	Description Next Generation Science Standards Systems Implementation Plan for California, 2014 Science Safety Handbook for California Public Schools, 2014 California Next Generation Science Standards, 2013 Science Framework for California Public Schools: Kindergarten Through Grade 12, 2016 Supporting Implementation of the California Next Generation Science Standards (CA-NGSS), Governance
Management Resources California Department of Education Publication CSBA Publication	Description Next Generation Science Standards Systems Implementation Plan for California, 2014 Science Safety Handbook for California Public Schools, 2014 California Next Generation Science Standards, 2013 Science Framework for California Public Schools: Kindergarten Through Grade 12, 2016 Supporting Implementation of the California Next Generation Science Standards (CA-NGSS), Governance Brief, November 2016 CSBA District and County Office of Education Legal
Management Resources California Department of Education Publication CSBA Publication Website	Description Next Generation Science Standards Systems Implementation Plan for California, 2014 Science Safety Handbook for California Public Schools, 2014 California Next Generation Science Standards, 2013 Science Framework for California Public Schools: Kindergarten Through Grade 12, 2016 Supporting Implementation of the California Next Generation Science Standards (CA-NGSS), Governance Brief, November 2016 CSBA District and County Office of Education Legal Services

<u>Standards</u>

Website <u>California Department of Education</u>

Website <u>CSBA</u>

Cross References

Code 0440	Description District Technology Plan
0440	District Technology Plan
0460	Local Control And Accountability Plan
0460	Local Control And Accountability Plan
0500	<u>Accountability</u>
3511	Energy And Water Management
3511	Energy And Water Management
3511.1	Integrated Waste Management
3511.1	Integrated Waste Management
3514.1	Hazardous Substances
3514.1	Hazardous Substances
4119.42	Exposure Control Plan For Bloodborne Pathogens
4119.42	Exposure Control Plan For Bloodborne Pathogens
4119.42-E(1)	Exposure Control Plan For Bloodborne Pathogens
4131	Staff Development
4157	Employee Safety
4157	Employee Safety
4219.42	Exposure Control Plan For Bloodborne Pathogens
4219.42	Exposure Control Plan For Bloodborne Pathogens
4219.42-E(1)	Exposure Control Plan For Bloodborne Pathogens
4257	Employee Safety
4257	Employee Safety
4319.42	Exposure Control Plan For Bloodborne Pathogens
4319.42	Exposure Control Plan For Bloodborne Pathogens

4319.42-E(1)	Exposure Control Plan For Bloodborne Pathogens
4331	Staff Development
4357	Employee Safety
4357	Employee Safety
5141.22	<u>Infectious Diseases</u>
5141.22	<u>Infectious Diseases</u>
5142	<u>Safety</u>
5142	<u>Safety</u>
5145.8	Refusal To Harm Or Destroy Animals
5148.2	Before/After School Programs
5148.2	Before/After School Programs
6011	Academic Standards
6141	Curriculum Development And Evaluation
6141	Curriculum Development And Evaluation
6141.2	Recognition Of Religious Beliefs And Customs
6141.2	Recognition Of Religious Beliefs And Customs
6141.4	International Baccalaureate Program
6142.1	Sexual Health And HIV/AIDS Prevention Instruction
6142.1	Sexual Health And HIV/AIDS Prevention Instruction
6142.5	Environmental Education
6142.92	Mathematics Instruction
6143	Courses Of Study
6143	Courses Of Study
6146.1	High School Graduation Requirements
6161.1	Selection And Evaluation Of Instructional Materials
6161.1	Selection And Evaluation Of Instructional Materials
6161.1-E(1)	Selection And Evaluation Of Instructional Materials
6161.11	Supplementary Instructional Materials
6162.51	State Academic Achievement Tests
6162.51	State Academic Achievement Tests

6172	Gifted And Talented Student Program
6172	Gifted And Talented Student Program
6179	Supplemental Instruction