Instruction BP 6142.93 SCIENCE INSTRUCTION

The Governing Board believes that science education should focus on giving students an understanding of the biological, physical, earth, and space science aspects of science, key scientific concepts, and methods of scientific inquiry and investigation. Students should become familiar with the natural world and the interrelation of science, technology, engineering, and mathematics. 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. It is recognized that the IB and AP curricula may include the study and discussion of the impact of philosophy on the development of scientific knowledge and understanding.

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. It is encouraged that parents/guardians be informed of the types of science laboratory activities that will be conducted. It is encouraged that parents/guardians sign lab safety agreements for the safe participation of their child in science laboratory activities.

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

Instruction **BP 6142.93**

SCIENCE INSTRUCTION

Legal Reference:

Ed. Code 8774

State	Description
5 CCR 14030	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
	<u>animals</u>
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

Management Resources	Descri
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Management Resources	Description
California Department of Education	Next Generation Science Standards Systems Implementation
Publication	Plan for California, 2014
California Department of Education	Science Safety Handbook for California Public Schools, 2014
Publication	
California Department of Education	California Next Generation Science Standards, 2013
Publication	
California Department of Education	Science Framework for California Public Schools:

Residential outdoor science program

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California Department of Education	Science Framework for California Public Schools:
Publication	Kindergarten Through Grade 12, 2016

Supporting Implementation of the California Next Generation **CSBA Publication** Science Standards (CA-NGSS), Governance Brief,

November 2016

Website CSBA District and County Office of Education Legal

Website U.S. Department of Education, STEM Education

California Science Teachers Association Website

California Alliance for Next Generation Science Standards Website

California Department of Education Website

CSBA Website

Cross References

Instruction BP 6142.93

SCIENCE INSTRUCTION

SCI	ENCEMBIRECTION
Code	Description
0440	District Technology Plan
0440	District Technology Plan
0460	Local Control And Accountability Plan
0460	Local Control And Accountability Plan
0500	Accountability
3511	Energy And Water Management
3511	Energy And Water Management
3511.1	Integrated Waste Management
3511.1	Integrated Waste Management
3514.1	<u>Hazardous Substances</u>
3514.1	<u>Hazardous Substances</u>
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	Infectious Diseases
5141.22 5142	Infectious Diseases
5142	<u>Safety</u> Safety
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
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Instruction BP 6142.93 SCIENCE INSTRUCTION

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