



Chico Unified School District

1163 East Seventh Street, Chico, CA 95928-5999
(530) 891-3000

Board Policy:

#6142.93

Section: 6000

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SCIENCE INSTRUCTION

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 Board shall adopt academic standards for science that 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 may 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 in accordance with Administrative Regulation 5142 - Safety, 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.

The Superintendent or designee shall annually report to the Board the student results of the California Science Test.

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 |
|------------------------|--|
| 5 CCR 14030 | <u>Preliminary procedure, planning and approval of school facilities</u> |
| 8 CCR 5191 | <u>Chemical hygiene plan</u> |
| Ed. Code 32030-32034 | <u>Eye safety</u> |
| Ed. Code 32255-32255.6 | <u>Student's right to refrain from harmful or destructive use of animals</u> |
| Ed. Code 33475-33475.5 | <u>Model curriculum on stem cell science</u> |



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| State | Description |
|--|--|
| Ed. Code 33548 | <u>Media and artificial intelligence literacy</u> |
| Ed. Code 49340-49341 | <u>Hazardous substances education</u> |
| Ed. Code 51210 | <u>Course of study for grades 1-6</u> |
| Ed. Code 51210.3 | <u>Elementary science coach</u> |
| Ed. Code 51220 | <u>Course of study for grades 7-12</u> |
| Ed. Code 51225.3 | <u>High school graduation requirements</u> |
| Ed. Code 52059.5-52077 | <u>Local control and accountability plan</u> |
| Ed. Code 60640-60648.5 | <u>California Assessment of Student Performance and Progress</u> |
| Ed. Code 8774 | <u>Residential outdoor science program</u> |
| Management Resources | Description |
| California Department of Education Publication | <u>Science Safety Handbook for California Public Schools, 2014</u> |
| California Department of Education Publication | <u>Science Framework for California Public Schools: Kindergarten Through Grade 12, 2016</u> |
| California Department of Education Publication | <u>California Next Generation Science Standards, 2013</u> |
| CSBA Publication | <u>Supporting STEM Access, Equity, and Effectiveness: Equitable Access to Rigorous STEAM Coursework, October 2018</u> |
| CSBA Publication | <u>Supporting STEM Access, Equity, and Effectiveness: The Path to Full Implementation of the California Next Generation Science Standards, October 2018</u> |
| CSBA Publication | <u>Supporting STEM Access, Equity, and Effectiveness: Professional Learning is Essential to Next Generation Science Standards Implementation, October 2020</u> |
| CSBA Publication | <u>Supporting Implementation of the California Next Generation Science Standards (CA-NGSS), Governance Brief, November 2016</u> |
| Website | <u>Los Angeles County Office of Education, Introduction to Strategic Science Teaching (SST)</u> |
| Website | <u>Strategic Science Teaching, Grades K-12: A Sampler of Science Lessons Connecting Literature with the California Standards</u> |
| Website | <u>CSBA District and County Office of Education Legal Services</u> |
| Website | <u>U.S. Department of Education, STEM Education</u> |
| Website | <u>California Alliance for Next Generation Science Standards</u> |
| Website | <u>California Science Teachers Association</u> |
| Website | <u>CSBA</u> |
| Website | <u>California Department of Education</u> |
| Cross References | |



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|-------------|--|
| 0440 | <i>District Technology Plan</i> |
| 0441 | <i>Artificial Intelligence</i> |
| 0460 | <i>Local Control And Accountability Plan</i> |
| 0500 | <i>Accountability</i> |
| 3511 | <i>Energy And Water Management</i> |
| 3511.1 | <i>Integrated Waste Management</i> |
| 3514.1 | <i>Hazardous Substances</i> |
| 4119.42 | <i>Exposure Control Plan For Bloodborne Pathogens</i> |
| 4131 | <i>Staff Development</i> |
| 4157 | <i>Employee Safety</i> |
| 4219.42 | <i>Exposure Control Plan For Bloodborne Pathogens</i> |
| 4257 | <i>Employee Safety</i> |
| 4319.42 | <i>Exposure Control Plan For Bloodborne Pathogens</i> |
| 4331 | <i>Staff Development</i> |
| 4357 | <i>Employee Safety</i> |
| 5141.22 | <i>Infectious Diseases</i> |
| 5142 | <i>Safety</i> |
| 5145.8 | <i>Refusal To Harm Or Destroy Animals</i> |
| 5148.2 | <i>Before/After School Programs</i> |
| 6011 | <i>Academic Standards</i> |
| 6141 | <i>Curriculum Development And Evaluation</i> |
| 6141.2 | <i>Recognition Of Religious Beliefs And Customs</i> |
| 6141.4 | <i>International Baccalaureate Program</i> |
| 6142.1 | <i>Sexual Health And HIV/AIDS Prevention Instruction</i> |
| 6142.5 | <i>Environmental Education</i> |
| 6142.92 | <i>Mathematics Instruction</i> |
| 6143 | <i>Courses Of Study</i> |
| 6146.1 | <i>High School Graduation Requirements</i> |
| 6161.1 | <i>Selection And Evaluation Of Instructional Materials</i> |
| 6161.11 | <i>Supplementary Instructional Materials</i> |
| 6162.51 | <i>State Academic Achievement Tests</i> |



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Code**Description**

6172

Gifted And Talented Student Program

6179

Supplemental Instruction