

San Dieguito Union High School District

Science Instruction

BP 6142.93

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 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 may 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.

Legal Reference:

EDUCATION CODE

8774 Residential outdoor science program

32030-32034 Eye safety

32255-32255.6 Student's right to refrain from harmful or destructive use of animals

33475-33475.5 Model curriculum on stem cell science

49340-49341 Hazardous substances education

51210 Areas of study, grades 1 through 6

51210.3 Elementary science coach

51220 Areas of study, grades 7 through 12
51225.3 High school graduation
52060-52077 Local control and accountability plan
60640-60649 California Assessment of Student Performance and Progress
CODE OF REGULATION, TITLE 5
14030 Science laboratories, design specifications
CODE OF REGULATIONS, TITLE 8
5191 Occupational exposure to hazardous chemicals in laboratories; chemical hygiene plan

Management Resources:

CSBA PUBLICATIONS

Supporting Implementation of the California Next Generation Science Standards (CA-NGSS),
Governance Brief, November 2016

CALIFORNIA DEPARTMENT OF EDUCATION PUBLICATIONS

Science Framework for California Public Schools: Kindergarten Through Grade Twelve, 2016

Next Generation Science Standards Systems Implementation Plan for California, 2014

California Next Generation Science Standards, 2013

Science Safety Handbook for California Public Schools, 2012

WEB SITES

CSBA: <http://www.csba.org>

California Alliance for Next Generation Science Standards:

<http://cdefoundation.org/stem/ca4ngss>

California Department of Education: <http://www.cde.ca.gov>

California Science Teachers Association: <http://www.cascience.org>

U.S. Department of Education, STEM Education: <http://www.ed.gov/stem>

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