

LODI UNIFIED SCHOOL DISTRICT

Policy 6142.93

Instruction

Science Instruction

The Board of Education 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 interrelation of science, mathematics and technology. As part of their science instruction, students should learn how to apply scientific knowledge.

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 Districts 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.

Legal References: 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 REGULATIONS, 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>

Policy

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