

Kindergarten: Physical Sciences, Earth Sciences, Investigation and Experimentation

California State Science Content Standards

Covered in:

**Hands-on science labs, demonstrations, & activities.
Investigation and Experimentation. Lesson Plans.**

Presented by Climate Change Education .org during

Mobile Climate Science Labs

- Professional development for teachers
 - In school presentations
 - Climate science and hands-on education *specialists* presenting alongside teachers and teaching assistants
 - Presentations at CSTA, NSTA, AAAS conferences
- For school field trips, as presented at local science museums

As aligned with existing science content standards, adopted 1997

Referencing: *Science Framework for California Public Schools*

<http://www.cde.ca.gov/ci/sc/cf/documents/scienceframework.pdf>

Adopted by the California State Board of Education

Published by the California Department of Education

Enabling teachers and schools to provide outstanding education called for in the standards under *Investigation and Experimentation* sections. Requirements for a minimum of 20-25% hands-on education in science.

Index of Standards Alignment—other grades, courses and standards:

http://climatechangeeducation.org/labs/k12_standards/index.html

Themes: <http://climatechangeeducation.org/labs/themes/index.html>

In the following, sections of standards noted are part of one or more lab theme.

Sections highlighted in **green** are a *primary focus* of one or more hands-on science lab.

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Kindergarten

Standard Set 1 Physical Sciences

1. **Properties of materials can be observed, measured, and predicted. As a basis for understanding this concept:**

a. *Students know* objects can be described in terms of the materials they are made of (e.g., clay, cloth, paper) and their physical properties (e.g., color, size, **shape**, **weight**, texture, **flexibility**, attraction to magnets, floating, sinking).

1. b. *Students know* water can be a liquid or a solid and can be made to **change back and forth** from one form to the other.

Standard Set 3

Earth Sci

3. b. *Students know* changes in **weather occur from day to day and across seasons, affecting Earth and its inhabitants.**

3. c. *Students know* how to identify resources from Earth that are used in everyday life and understand that **many resources can be conserved.**

Standard Set 4

Investigation and Experimentation

4. **Scientific progress is made by asking meaningful questions and conducting careful investigations. As a basis for understanding this concept and addressing the content in the other three strands, students should develop their own questions and perform investigations. Students will:**

4 e. ***Communicate observations orally and through drawings.***