

State Standards in Calvin Crest Outdoor School Curriculum

Calvin Crest Outdoor School seeks to bring students into contact with science, history, and the wonder of the great outdoors. In addition to giving students valuable life skills and experience, many of the classes offered at Calvin Crest can aid teachers in helping their fifth and sixth grade students reach Content Standards set by the California State Board of Education.

Rock Your World

Fifth Grade:

Next Generation Science Standards

5 - ESS2: Earth's Systems

- 1: Discusses interactions between geosphere, hydrosphere, and atmosphere.
- 2: Discusses the distribution of water on earth.

5 - ESS3: Earth and Human Activity

- 1: Fits to discuss ways individual communities use science to protect the Earth's resources and environment.

Health Education Content Standards

1.4.S - Discusses disaster preparedness plans, specifically drought in California.

Sixth Grade:

Next Generation Science Standards

MS - ESS1: Earth's Place in the Universe

- 1: Fits to discuss rock strata and the geologic time scale.

MS - ESS2: Earth's Systems

- 1: Discusses the rock cycle.
- 2: Discusses geoscience processes changing the Earth's surface.
- 4: Discusses the water cycle.

MS - ESS3: Earth and Human Activity

- 1: Discusses distribution of rock material and groundwater.
- 2: Discusses natural hazards such as earthquakes and floods.
- 3: Discusses human impact, specifically in the area of water usage.
- 4: Fits to discuss human consumption of natural resources.
- 5: Fits to discuss human activities causing rise in global temperatures.

Orienteering

Orienteering challenges students to learn a valuable skill while reinforcing basic mathematics concepts and giving students a real-world example of how math is used in everyday life. Throughout the class, students will use basic math and counting skills to determine distance traveled and practice attending to precision in a specific procedure. By the end of class, students will demonstrate an understanding of the degrees in a circle, the cardinal directions, and converting personal step size to feet traveled.

Common Core English Language Arts Standards: Science and Technical Subjects

CCSS.ELA-LITERACY.RST.6-8.3 Follow precisely a multistep procedure when carrying out experiments, taking measurements, or performing technical tasks.

Nature Trek

Fifth Grade:

Next Generation Science Standards

5 - PS3: Energy

- 1: Discusses photosynthesis.

5 - LS1: From Molecules to Organisms: Structures and Processes

- 1: Discusses how plants get nutrients from air and water.

5 - LS2: Ecosystems: Interactions, Energy, and Dynamics

- 1: Discusses movement of matter in ecosystems.

5 - ESS2: Earth's Systems

- 1: Discusses interactions between geosphere, hydrosphere, and atmosphere.
- 2: Discusses the distribution of water on earth.

5 - ESS3: Earth and Human Activity

- 1: Fits to discuss ways individual communities use science to protect the Earth's resources and environment.

Sixth Grade:

Next Generation Science Standards

MS - LS1: From Molecules to Organisms: Structures and Processes

- 4: Discusses how animal behaviors and plant structures affect the probability of reproduction.
- 5: Discusses of how environmental factors influence the growth of organisms.

MS-LS2: Ecosystems: Interactions, Energy, and Dynamics

- 1: Discusses the effects of resource availability in an ecosystem.
- 2: Discusses interactions among biotic and abiotic components of ecosystems.
- 3: Fits to discuss energy flow in and out of ecosystems and between living and nonliving components.
- 4: Discusses how change in an ecosystem affects populations.
- 5: Fits to discuss designs for maintaining biodiversity and ecosystem services.

MS - ESS2: Earth's Systems

- 4: Discusses the water cycle.

MS - ESS3: Earth and Human Activity

- 1: Discusses distribution of groundwater.
- 2: Discusses natural hazards such as earthquakes, wildfires, and floods.
- 3: Discusses human impact, specifically in the area of water usage.
- 4: Fits to discuss human consumption of natural resources.
- 5: Fits to discuss human activities causing rise in global temperatures.

Health Education Content Standards

- 1.4.S - Discusses disaster preparedness plans, specifically drought in California.

Giant Sequoia

Fifth Grade:

Next Generation Science Standards

5 - PS3: Energy

- 1: Fits to discuss photosynthesis.

5 - LS1: From Molecules to Organisms: Structures and Processes

- 1: Discusses how plants get nutrients from air and water.

5 - LS2: Ecosystems: Interactions, Energy, and Dynamics

- 1: Discusses movement of matter in ecosystems.

5 - ESS3: Earth and Human Activity

- 1: Fits to discuss ways individual communities use science to protect the Earth's resources and environment.

Sixth Grade:

Next Generation Science Standards

MS - LS1: From Molecules to Organisms: Structures and Processes

- 4: Discusses how animal behaviors and plant structures affect the probability of reproduction.

- 5: Discussion of how environmental factors influence the growth of organisms.

MS-LS2: Ecosystems: Interactions, Energy, and Dynamics

- 1: Discusses the effects of resource availability in an ecosystem.

- 2: Discusses interactions among biotic and abiotic components of ecosystems.

MS - ESS3: Earth and Human Activity

- 2: Discusses natural hazards such as wildfires.

- 3: Discusses human impact, specifically in the area of water usage and logging.

- 4: Fits to discuss human consumption of natural resources.

- 5: Fits to discuss human activities causing rise in global temperatures.

Miwok

Fourth Grade:

History - Social Science Content Standards

4.2 - Discusses a pre-Columbian society in California.

4.4 - Discusses California transformation and development since the 1850s.

Fifth Grade:

History - Social Science Content Standards

5.1 - Discusses a local pre-Columbian settlement, including how they were influenced by: 1.

1. geography and climate

2. customs and folklore traditions.

5.8 - Discusses the impact of settlement between 1789 and the mid-1800s.

Initiatives

In the Initiatives class, teachers take students through a variety of team-building challenges. During the preparation, completion, and debriefing of the activities, students will discuss topics that will likely include the following:

Sixth Grade:

Health Education Content Standards

- 2.1.S Analyze the role of self and others in causing or preventing injuries.
- 2.3.S Analyze personal behaviors that may lead to injuries or cause harm.
- 4.1.S Practice effective communication skills to prevent and avoid risky situations.
- 5.1.S Use a decision-making process to determine a safe course of action in risky situations.
- 6.1.S Develop a personal plan to remain safe and injury free.
- 7.1.S Practice ways to resolve conflicts nonviolently.
- 8.1.S Support injury prevention at school, at home, and in the community.
- 8.3.S Encourage others to practice safe behaviors.
- 7.1.M Carry out personal and social responsibilities appropriately.
- 7.3.M Practice appropriate ways to respect and include others who are different from oneself.
- 7.4.M Demonstrate how to use self-control when angry.

Survival

In the survival class, students spend time discussing strategies for remaining safe and avoiding getting lost when outdoors. Students discuss how to deal with various types of survival situations, should the need arise. Topics discussed will include some of the following:

Sixth Grade:

Health Education Content Standards

- 1.2.S Describe basic first aid and emergency procedures.
- 1.8.S Describe hazards related to sun, water, and ice.
- 2.1.S Analyze the role of self and others in causing or preventing injuries.
- 2.3.S Analyze personal behaviors that may lead to injuries or cause harm.
- 4.1.S Practice effective communication skills to prevent and avoid risky situations.
- 5.1.S Use a decision-making process to determine a safe course of action in risky situations.
- 6.1.S Develop a personal plan to remain safe and injury free.
- 8.1.S Support injury prevention at school, at home, and in the community.
- 8.3.S Encourage others to practice safe behaviors.