

Into the Redwood Forest UBD (Understanding By Design) Framework: 3rd-4th

Desired Results

Goals of Program

Students will...

- Enrich their understanding of place through inquiry.
- Experience National Parks as places for learning and recreation and develop a personal connection with their local national park.
- Learn about the historical, cultural, and environmental forces that shape and influence Muir Woods.

Transfer

1. Recognize that there is a relationship between culture and the land.
2. Engage in scientific inquiry and plant identification.

Meaning

Enduring Understandings

Students will understand that:

1. Living things adapt in order to survive in a changing world.
2. Culture and land are related.
3. Individuals and communities can help protect and preserve natural environments.

Essential Question

How do living things thrive in their habitat?

Acquisition

Students will know...

- The ways in which living things thrive in Muir Woods.
- How Native American values shape their relationship with Muir Woods.
- Animals and plants adapt to a changing environment.
- The life cycle of a coast redwood tree.

Students will be able to...

- Describe the life cycle of a Coast Redwood Tree.
- Identify the Native American uses of plants found in Muir Woods.
- Recognize signs of a healthy environment in Muir Woods.
- Explain how plants and animals adapt for survival in Muir Woods.

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Evidence

Students will show their learning by...

- Completion of page 2 in student journal.

Or

- Create your own story of how living things have adapted to the changing environment of Muir Woods. Use your booklet and your visit to the forest for ideas.

Or

- Look at the life cycle of a redwood tree. Write and illustrate a poem that shows the life cycle of a redwood tree. Be certain to use descriptive words and vocabulary words.

CA Next Generation Science Standards

3-LS4-3: In a particular habitat some organisms can survive well, some survive less well, and some cannot survive at all.

3-LS4-4: Determine whether environmental changes can affect the types of animals and plants in a place.

4-LS1-1: Plants have internal and external structures that function to support survival.

CA History-Social Science Content Standards

3.22: Discuss the ways in which physical geography, including climate, influenced how the local Indian nations adapted to their natural environment.

CA Common Core Standards

Writing

3.3 & 3.4: Write narratives to develop real or imagined experiences or events.

Speaking and Listening

1.3 & 1.4 : Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led).

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Learning Plan

Summary of Key Learning Events and Instruction

- Pre-trip Preparation: Teacher facilitates lessons 1-6 to introduce students to concepts, environment, and the cultural history of Muir Woods. Lessons 1-6 are found in the teacher curriculum.
- Pre-trip Presentation: During pre-trip presentation NPS staff conducts a classroom lesson, introducing the inquiry process (or reinforces if the class has been using inquiry methods) through small group work and an interactive investigation of objects found at Muir Woods. This process mirrors what students will do in the field session at Muir Woods.
- Muir Woods Field Trip: National Park Service staff welcomes the students and conducts a 3-hour inquiry-based lesson on the redwood forest ecosystem and cultural history. The inquiry-based education program engages students, using their senses to investigate the redwood forest.
- National Park Staff, teacher, and adult chaperones accompany the students in the investigation of the redwood forest. Students bring along their nature journals for their investigation in the redwood forest.
- Post-trip: Students demonstrate what they have learned by completing one of the post-visit classroom lessons found in the curriculum.

All materials can be found at:

http://www.nps.gov/goga/forteachers/elementary_01.htm

Curriculum Resources:

Into the Redwood Forest web curriculum portal:

http://www.nps.gov/goga/forteachers/elementary_01.htm

Save the Redwoods League:

<https://www.savetheredwoods.org/>