

## FIELD TRIP OVERVIEW



**SITE:** Chilao Visitor Center

**LOCATION:** Angeles National Forest in the San Gabriel Mountains National Monument (approximately 27 miles North/Northeast from La Canada Flintridge)

**OBJECTIVES:** See attached list of Disciplinary Core Ideas from the Next Generation Science Standards

**GROUP SIZE:** Maximum of 60 students unless arrangements are made prior to the field trip

**DAY/TIME:** Fridays from approximately 10:00 a.m. to 1:00 p.m.

**SCHEDULE:** 8:30 – 9:30 Bus Ride

9:30 – 10:00 Orientation and Overview

10:00 – 12:00 2 Concurrent Activities (Geology Presentation & Nature Walk)

12:00 – 1:00 Lunch in the Picnic Area followed by exploration of the self-guided interpretive trails and Visitor Center displays

1:00 – 2:00 Bus Ride

**LOGISTICS:**

- Teachers will receive a packet of materials and a sample Nature Investigations magazine to be used for pre- and post- visit lessons.
- Classes will receive Smokey Bear and Woodsy Owl posters and a visit from a forest volunteer who will explain what Smokey and Woodsy want forest visitors to “Know Before They Go”.
- Students will receive pencils, rulers, Smokey comic books, activity booklets, posters, and/or Certificates of Completion in a collection envelope. (based on availability)

**WHAT TO BRING/WEAR:**

- Sturdy, comfortable closed toe shoes
- Long pants
- Hat/cap
- Jacket/sweater
- Sunscreen and insect repellent
- Binoculars for bird watching
- Camera
- Lunch and bottled water in a backpack (which will remain on the bus during explorations)

**WHAT NOT TO BRING/WEAR:**

- Sandals/flip-flops
- Cell phones (no reception)
- Money (nothing to buy)
- Toys or games

**SMOKEY & WOODSY EXPECT FOREST VISITORS TO:**

- ENJOY the forest
- Respect the forest and all its inhabitants
- Learn how to prevent wildfires and keep the environment clean
- Listen carefully to presenters and guides
- Follow directions and actively participate
- Focus attention
- Think and ask questions
- Walk quietly in the center and on the marked trails
- LEARN

**POST FIELDTRIP:**

Back at school and home, teachers and parents will use the resources and activities provided by the Chilao Visitor Center to help you answer the following questions.

1. What is something you already knew about the forest before your visit?
2. What is the most awesome thing you learned?
3. How will you use something you have learned at home and at school?
4. What is something more you want to know?

**SUBJECT:** What to “Know Before You Go” to the Chilao Visitor Center in the Angeles National Forest/San Gabriel Mountains National Monument

**TO:** Teachers, students, and parents

**FROM:** Smokey Bear and Woodsy Owl

**DATE:** \_\_\_\_\_

Most of the Angeles National Forest has been designated a National Monument to preserve not only objects of beauty, but also items of scientific and historical interest. The mission of the USDA Forest Service is “to sustain the health, diversity, and productivity of the Nation’s forests and grasslands to meet the needs of present and future generations.” The Chilao Visitor Center aims to achieve that goal by providing students, teachers, and parents with a fun, exciting educational experience in the great outdoors.

***During the field trip, students will participate in: (will vary based on grade level)***

A geology presentation focusing on the geological history of the San Gabriel Mountains, the types of rocks found here, and methods to identify them.

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A guided nature walk emphasizing the big trees of the high country and the benefits they provide to the public and local fauna. A discussion of how human activities in the city can negatively impact the forest will also be addressed.

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Exploring self-guided interpretive trails and center exhibits highlighting the culture and history of early settlers, rangers, lookout towers/personnel, natural history (flora and fauna), and rocks-geological features of the Chilao area.

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DISCIPLINARY CORE IDEAS FROM THE NEXT GENERATION SCIENCE STANDARDS THAT ARE ADDRESSED BY THE CHILAO VISITOR INFORMATION SERVICES AT THE CHILAO INTERPRETIVE SITE IN THE SAN GABRIEL MOUNTAINS NATIONAL MONUMENT

*The proposed field trip is most suitable for grades 3 through 6, but schools are encouraged to pair up upper grade and lower grade classes, with the upper grade students sharing what they learned at Chilao with their lower grade partners.*

**Kindergarten**

- LS1.C Organization for Matter and Energy Flow in Organisms
- ESS2.D Weather and Climate
- ESS2.E Biogeology
- ESS3.C Natural Resources
- ESS3.B Natural Hazards
- ESS3.C Human Impact on Earth Systems

**Grade 1**

- LS1.A Structure and Function
- LS1.B Growth and Development in Organisms
- LS3.A Inheritance of Traits
- LS3.B Variation of Traits

**Grade 2**

LS2.A Interdependent Relationships in Ecosystems  
LS4.D Biodiversity and Humans  
ESS1.C The History of Planet Earth  
ESS2.A Earth Materials and Systems  
ESS2.B Plate Tectonics and Large-Scale Systems Interactions  
ESS2.C The Role of Water in Earth's Surface Processes

### **Grade 3**

LS1.B Growth and Development of Organisms  
LS2.D Social Interaction and Group Behaviors  
LS3.A Inheritance of Traits  
LS3.B Variation of Traits  
LS2.C Ecosystem Dynamics, Functioning, and Resilience  
LS4.A Evidence of Common Ancestry and Diversity  
LS4.B Natural Selection  
ESS2.D Weather and Climate  
ESS3.B Natural Hazards

### **Grade 4**

LS1.A Structure and Function  
LS1.D Information Processing  
ESS1.C The History of the Earth  
ESS2.A Earth Materials and Systems  
ESS2.B Plate Tectonics and Large-Scale System Interactions  
ESS2.E Biogeology  
ESS3.A Natural Resources  
ESS3.B Natural Hazards

### **Grade 5**

LS1.C Organization for Matter and Energy Flow in Organisms  
LS2.A Interdependent Relationships in Ecosystems  
LS2.B Cycle of Matter and Energy Transfer in Ecosystems  
ESS2.A Earth Materials and Systems  
ESS2.C The Roles of Water in Earth's Surface Ecosystems  
ESS3.C Human Impact on Earth's Systems  
PS3.D Energy in Chemical Processes and Everyday Life  
LS1.C Organization for Matter and Energy Flow in Organism

### **Grade 6**

LS1.A Structure and Function

LS1.B	Growth and Development of Organisms
LS3.A	Inheritance of Traits
LS3.B	Variation of Traits
ESS2.C	The Role of Water in Earth's Surface Processes
ESS2.D	Weather and Climate
ESS3.C	Human Impact on Earth's Systems
ESS3.D	Global Climate Change