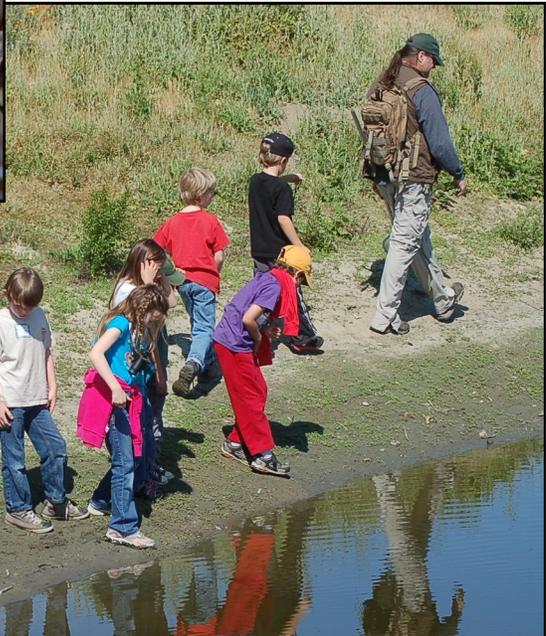


City of Pleasanton
Community Services Department

Environmental Education Program Guide 2014-2015



THE CITY OF



PLEASANTON

Welcome!

The City of Pleasanton's Environmental Education Staff is pleased to offer a wide assortment of hands-on programming opportunities specializing in natural and physical science and cultural history for the 2014-2015 school year!

Programs are available in-class, at the Alviso Adobe Community Park, and at many other parks and creeks throughout Pleasanton. In-class presentations cover all aspects of the Earth's ecosystems. Programs at the Alviso Adobe Community Park focus on the cultural history of the area, including the Native American, Californio, and agricultural periods of the Amador Valley. Field visits introduce students to concepts such as habitats, biodiversity, and restoration.

All of our programs meet the State Curriculum Grade Level History-Social Science or Next Generation Science Standards, and each program is specifically geared to the grade level of your individual group.

New for this year!

Our Californio and agricultural programs are newly designed and feature exciting hands-on opportunities.

We look forward to hearing from you soon!

Eric Nicholas
City Naturalist

Megan Kummer
Assistant Naturalist



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Contact Information

Environmental Education Program

Alviso Adobe Community Park
3465 Old Foothill Rd.
Pleasanton, CA 94588
Office Hours: Tuesday—Sunday
10:00am to 4:00pm
(925)931-3479

Eric Nicholas, City Naturalist
(925)931-3483
enicholas@cityofpleasantonca.gov

Megan Kummer, Assistant Naturalist
(925)931-3482
mkummer@cityofpleasantonca.gov



About this Guide

This guide presents Adobe field trips, in-class presentations, and off-site field trips to the parks and creeks in Pleasanton. Adobe field trips, held at the Alviso Adobe Community Park, have an emphasis on cultural history and agriculture throughout the Valley. In-class presentations and off-site field trips focus on natural and physical science, except for Native Ways fieldtrips, which focus on the Ohlone people’s relationships with various habitats. In-class presentations are available to PUSD classes only.

Registration

To register for a program, contact Megan Kummer to coordinate program days/times. We can hold dates for you while you secure your payment. Complete the Registration Form, on page 15 of this Guide, and submit with payment to the Community Services Department Office (Mailing Address: P.O. Box 520). **A confirmation letter will be sent with Field Trip Release/Waiver Forms, which must be completed for each student and turned in on the date of the program. Payment must be received before your program day.**

Program Subject Key

Program titles will appear in the color of the subject into which they fit:

Cultural History **Physical Science**
Biology **Bio-Niches**
Pleasanton Park Fieldtrips

Adobe Field Trips

Adobe Field trips, held at the **Alviso Adobe Community Park**, have an emphasis on cultural history and agriculture throughout the Valley. As always, we will be looking at the connections between various cultures and the natural world.

Second Grade

Digging Pleasanton!

Length of Program: 2 hours

Days offered: Spring only

In this field program, students will explore the principles of geology and archaeology by studying the ground beneath their own feet! Students will learn about the tools and skills of archaeologists as they uncover objects, categorize and record them, and identify their uses, ultimately drawing conclusions about the lives of the people who occupied the Amador Valley in the past.



Standards addressed: Science: 2.3. NGSS: 2-ESS1. History-Social Science: 2.1.

Third Grade

Native Ways

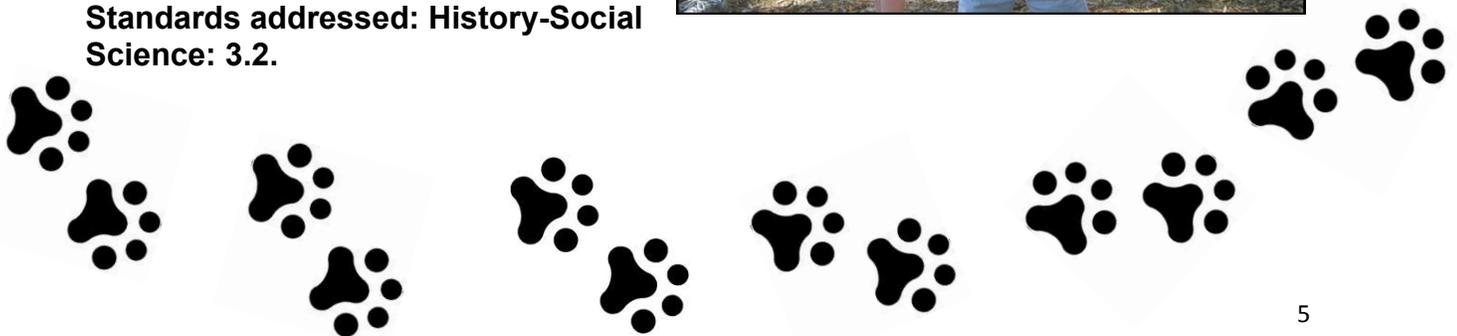
Length of Program: 2 hours

Season: School Year

This hands-on program teaches students the material culture of the Ohlone. Students will gain an understanding of Ohlone life by actively re-creating the crafts, tools and skills used in the past. Students will also learn about native flora and fauna that the Ohlone utilized within their culture.



Standards addressed: History-Social Science: 3.2.



Fourth Grade



Adobe Chores

Length of Program: 2 hours

Season: School Year

Students will use traditional methods to understand the daily chores used to operate the rancho. Activities can include tending the gardens, weaving or making adobe bricks. Students will learn about the rancho system and how it was a part of California society.

Standards addressed: History-Social Science: 4.2.

***During the fall and spring, Adobe Chores can focus on adobe brick making. Due to time constraints, brick making will be the main component of the program. If you would like**

your spring Adobe Chores program to focus on brick making, please specify that preference.

Time Travelers

Length of Program: 2 hours

Season: School Year

Students will travel along the timeline of the Alviso Adobe Community Park's history to see how people once lived. Through activities that focus on clothing, tools, and food, students will explore the life ways of the Ohlone, Californios, early American agriculturalists, and those who lived and worked in the Amador Valley. This program includes a brief guided tour of the entire park with hands-on activities.

Standards addressed: History-Social Science: 4.2, 4.4.



In-Class Presentations

Subject matter of in-class presentations focuses on natural and physical science, except for Native Ways presentations, which focus on the Ohlone people's relationship with various habitats. These programs are available Tuesday-Friday. Classroom visits are available to **PUSD classes only**.

Kindergarten, First and Second Grades

All Kinds of Animals

Length of Program: 1 hour, in-class

Season: School Year



Students will learn about various types of animals as they explore the differences between the many types of life that share the Earth. Hands-on activities will be the key as they learn about animal dentition, sensory awareness and methods employed by species in a diverse array of habitats. Subject matter can be geared to teacher's specifications (for example, animal adaptations, arthropods or reptiles).

Standards addressed: Science: K.2, K.4; 1.2, 1.4; 2.2, 2.4. NGSS: K-LS1, K-ESS3-1, 1-LS1 2-LS4-1.

A Pond in the Classroom

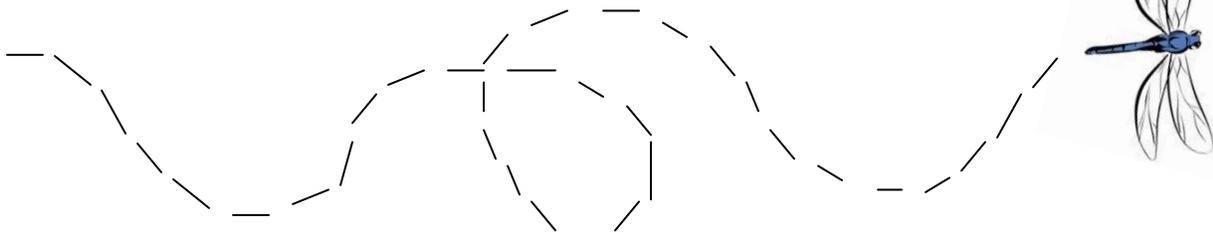
Length of Program: 1 hour, in-class

Season: School Year

In this program, the pond comes to the students! Discover what makes a pond such a special place. Students will meet various creatures and learn how the pond is not only beneficial for the organisms that live there, but for many other habitat communities as well. Students will look at predation, adaptation and the consequences of pollution in these unique locations as they view pond life up close.



Standards addressed: Science: K.2, K.4; 1.2, 1.4; 2.2, 2.4. NGSS: K-LS1, K-ESS3-1, 1-LS1-1, 1-LS3, 2-LS4.



Third Grade

Native Ways

Length of Program: 1 or 2 hours

Season: School Year

A Native Ways in-class visit allows students to explore the material culture and life ways of the Ohlone without leaving their classrooms! This program can be used in conjunction with a visit to any field trip site (Arroyo del Valle, Augustin Bernal, Kottinger Park, Bernal Community Park) to explore the life ways of the Ohlone.

Standards addressed: History-Social Science: 3.2.

Second and Fourth Grades

Geology Rocks

Length of Program: 2 hours

Days offered: Spring only

This in-class presentation is designed to introduce students to the properties of rocks and minerals and how they reflect the processes that formed them. Students will learn how to differentiate between igneous, sedimentary and metamorphic rocks through their properties and methods of formations. They will also learn to identify common ore and rock-forming minerals by using different data tables and methods. Lastly, students will understand the different processes that shape the Earth's land surfaces.

Standards addressed: Science: 2.3; 4.4. 4.5. NGSS: 2-ESS, 4-ESS1,

Pleasanton Park Field Trips

Pleasanton Park Field Trips provide nature experiences for students in their local parks. Program locations include: Arroyo del Valle, Augustin Bernal Park, Bernal Creek and Ponds, and Kottinger Creek. Program lengths vary from 1-2 hours.

First through Second Grades

Augustin Bernal Park

Length of Program: 2 hours

Season: School Year

Students will travel through the forest and learn about the wonderful diversity of plants and animals that live in this park. Using all of their senses, students will learn about tracking and plant uses from long ago to understand the natural world around them.



Standards addressed: Science: 1.2, 1.4; 2.2, 2.4. NGSS: 1-LS3, 2-LS4.

First through Third Grades

Arroyo Adventures

Length of Program: 2 hours

Season: Fall and Spring only

While exploring the Arroyo del Valle, students will learn about the bio-diversity of plants and animals in riparian habitats. Learn how to track animals and find out what makes a healthy environment. Students will gain an understanding of the difference between native and invasive species, and how we impact creek systems. Students will also learn what they can do to protect the natural world around us. Note: This field trip is also offered as an in-depth field study of Ohlone cultural ways.



Standards addressed: Science: 1.2, 1.4; 2.2, 2.4; 3.3, 3.5. NGSS: 1-LS1, 1-LS3, 2-LS4, 3-LS3.



Bernal Creek and Pond Explorations

Length of Program: 2 hours

Season: Fall and Spring only

Bring the class out for a trek across this exciting series of habitats. They will learn about how many animal and plant communities need each other's support for survival. See tadpoles, frogs and toads and discover what their part is in this great food-web that we all share. Searching for tracks, students will discover how important water is to all life...great and small. Note: This field trip is also offered as an in-depth field study of Ohlone cultural ways.



Standards addressed: Science: 1.4; 2.2, 2.4; 3.3, 3.5. NGSS: 1-LS1, 1-LS3, 2-LS4, 3-LS3.

Kottinger Creek Exploration

Length of Program: 1 or 2 hours

Season: School Year

Explore one of the great success stories which we all can share...a restored creek! Students will hear about what happened to this local creek due to human impact; both positive and negative. They will search for signs of wildlife and learn why native plants are so important to the health of a habitat as they walk up the creek and back again. After the exploration is over, students will have an opportunity to visit with animals that are native to this newly re-created site! Note:



This field trip is also offered as an in-depth field study of Ohlone cultural ways.

Standards addressed: Science: 1.2, 1.4; 2.2, 2.4; 3.3, 3.5. NGSS: 1-LS1, 1-LS3, 2-LS4, 3-LS3-4.



Third Grade

Native Ways—Augustin Bernal

Length of Program: 2 hours

Season: School Year

A hike through Augustin Bernal Park provides students with a deeper understanding of the life ways of the Ohlone. Participants will be introduced to the plants utilized in the Ohlone culture, and will appreciate the connection the Ohlone had with the world, its plants and animals.



Standards Addressed: History-Social Science 3.2.

Program Sites

Arroyo del Valle

Corner of Main Street and Vervais Avenue—
Main Street Green, 890 Main Street, Pleasanton

Field Trips Offered:

- Arroyo Adventures
- Native Ways—Arroyo del Valle



Augustin Bernal Park

8200 Golden Eagle Way, Pleasanton

Field Trips Offered:

- Augustin Bernal Park
- Native Ways—Augustin Bernal

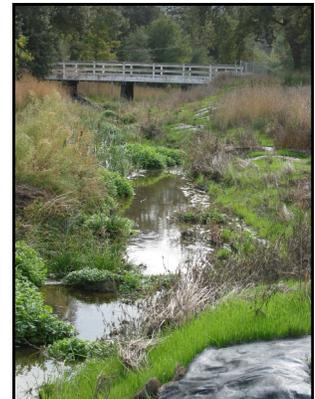


Bernal Community Park

7001 Pleasanton Avenue, Pleasanton

Field Trips Offered:

- Bernal Creek and Pond Explorations
- Native Ways—Bernal Creek



Kottinger Creek

1000 Kottinger Road, Pleasanton
(located within Kottinger Community Park)

Field Trips Offered:

- Kottinger Creek Exploration
- 'Native Ways—Kottinger Creek



Program Fees

Pleasanton Unified School District Schools

1 adult chaperone is required for every 8 children. Payment is due before field trip, but is not needed to secure a date.

Visit to Alviso Adobe Community Park

\$55.00 per class

\$2.00 for each additional student over 30 students

Visit to Other Pleasanton Parks, or Classroom

\$65.00 per class

\$2.00 for each additional student over 30 students

Out of District Schools

1 adult chaperone is required for every 8 children. Payment is due before field trip, but is not needed to secure a date.

Visit to Alviso Adobe Community Park

\$60.00 per class

\$2.00 for each additional student over 30 students

Visit to Other Pleasanton Parks

\$70.00 per class

\$2.00 for each additional student over 30 students

Group Tours (Home Schooling, Scouts, Church, Non-profits)

1 adult chaperone per every 8 children.

Pleasanton Groups

Visit to Alviso Adobe Community Park

\$35.00

Visit to Other Pleasanton Parks

\$45.00

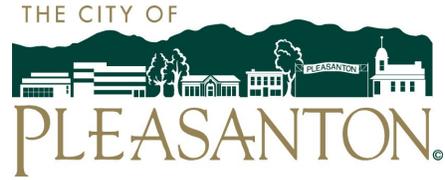
Non-Pleasanton Groups

Visit to Alviso Adobe Community Park

\$40.00

Visit to Other Pleasanton Parks

\$50.00



Registration Form

Main Contact/Teacher: _____ Contact Phone: _____

Name of School Group: _____

School/Contact Address: _____

Main Contact Email Address: _____

Grade Level: _____ Number of Students _____ # of Chaperones: _____

Name of Program Requested: _____

Select: In-Class Presentation (PUSD Only) Off-Site Visit: _____

Name of Location/Park

Classroom: _____ (If possible, please include the classroom that in-class presentations will take place in)

Program Dates Requested (Please refer to calendar of dates on page 14—16):

Program Time Requested:

Length of Program Requested: 1-Hour 2-Hour

Please refer to p. 12 of the City of Pleasanton Environmental Education Program Guide for program fees. A separate confirmation will be mailed once full payment has been received.

In case of cancellation, a full refund will be given when notice is received by the Environmental Education office at least thirty (30) days before the program day. Occasionally, programs need to be rescheduled due to excessive weather conditions. In these cases, the Environmental Education staff will contact you beforehand.

A check in the amount of \$ _____ is enclosed. Make check payable to: City of Pleasanton

VISA MASTERCARD Card Number _____ exp ____/____

Security # _____ (3 digit # on back of credit card)

Total Amount \$ _____ Card Holder Signature _____

Return Registration Request Form along with Payment to:

City of Pleasanton
ATTN: Community Services Department
Environmental Education Program
P.O. Box 520
Pleasanton, CA 94566

PUSD Registration begins Tuesday, 8/19.

Program time slots are listed in the calendar below:

October 2014

Non-PUSD
registration
begins
Tuesday, 9/1.

Tuesday	Wednesday	Thursday	Friday
30	1 9:30-11:30	2 9:30-11:30 12:30-2:30	3 9:30-11:30 12:30-2:30
7	8	9	10
14 9:30-11:30 12:30-2:30	15 9:30-11:30	16 9:30-11:30 12:30-2:30	17 9:30-11:30 12:30-2:30
21 9:30-11:30 12:30-2:30	22	23 9:30-11:30	24 9:30-11:30 12:30-2:30
28 9:30-11:30 12:30-2:30	29 9:30-11:30	30	31

November 2014

Tuesday	Wednesday	Thursday	Friday
4 9:30-11:30 12:30-2:30	5	6 9:30-11:30 12:30-2:30	7 9:30-11:30 12:30-2:30
11 9:30-11:30 12:30-2:30	12 9:30-11:30	13 9:30-11:30 12:30-2:30	14 9:30-11:30 12:30-2:30

December 2014

Tuesday	Wednesday	Thursday	Friday
2 9:30-11:30 12:30-2:30	3 9:30-11:30	4 9:30-11:30 12:30-2:30	5 9:30-11:30 12:30-2:30
9 9:30-11:30 12:30-2:30	10	11 9:30-11:30 12:30-2:30	12 9:30-11:30 12:30-2:30
16 9:30-11:30 12:30-2:30	17 9:30-11:30	18 9:30-11:30 12:30-2:30	19

January 2015

Tuesday	Wednesday	Thursday	Friday
6 9:30-11:30 12:30-2:30	7	8 9:30-11:30 12:30-2:30	9 9:30-11:30 12:30-2:30
13 9:30-11:30 12:30-2:30	14 9:30-11:30	15 9:30-11:30 12:30-2:30	16 9:30-11:30 12:30-2:30
20 9:30-11:30 12:30-2:30	21	22	23
27 9:30-11:30 12:30-2:30	28 9:30-11:30	29 9:30-11:30 12:30-2:30	30 9:30-11:30 12:30-2:30

February 2015

Tuesday	Wednesday	Thursday	Friday
3 9:30-11:30 12:30-2:30	4	5 9:30-11:30 12:30-2:30	6 9:30-11:30 12:30-2:30
10 9:30-11:30 12:30-2:30	11 9:30-11:30	12 9:30-11:30 12:30-2:30	13 9:30-11:30 12:30-2:30
17 9:30-11:30 12:30-2:30	18	19	20 9:30-11:30 12:30-2:30
24 9:30-11:30 12:30-2:30	25 9:30-11:30	26 9:30-11:30 12:30-2:30	27

March 2015

Tuesday	Wednesday	Thursday	Friday
3 9:30-11:30 12:30-2:30	4	5 12:30-2:30	6 9:30-11:30 12:30-2:30
10 9:30-11:30 12:30-2:30	11 9:30-11:30	12 9:30-11:30 12:30-2:30	13
17 9:30-11:00 12:30-2:30	18	19 9:30-11:30 12:30-2:30	20 9:30-11:30 12:30-2:30
24 9:30-11:30 12:30-2:30	25 9:30-11:30	26	27 9:30-11:30 12:30-2:30

April 2015

Tuesday	Wednesday	Thursday	Friday
1	2	3	4
7 9:30-11:30 12:30-2:30	8 9:30-11:30	9 9:30-11:30 12:30-2:30	10 9:30-11:30 12:30-2:30
14 9:30-11:30 12:30-2:30	15	16 9:30-11:30 12:30-2:30	17 9:30-11:30 12:30-2:30
21 9:30-11:30 12:30-2:30	22 9:30-11:30	23	24 9:30-11:30 12:30-2:30
28 9:30-11:30 12:30-2:30	29	30 9:30-11:30 12:30-2:30	

May 2015

Tuesday	Wednesday	Thursday	Friday
			1 9:30-11:00 12:30-2:30
5 9:30-11:30 12:30-2:30	6 9:30-11:30	7 9:30-11:30 12:30-2:30	8 9:30-11:30 12:30-2:30
12 9:30-11:30 12:30-2:30	13	14 9:30-11:30 12:30-2:30	15 9:30-11:30 12:30-2:30
19 9:30-11:30 12:30-2:30	20 9:30-11:30	21 9:30-11:30 12:30-2:30	22 9:30-11:30 12:30-2:30
26 9:30-11:30 12:30-2:30	27	28	29 9:30-11:30 12:30-2:30

June 2015

Tuesday	Wednesday	Thursday	Friday
2 9:30-11:30 12:30-2:30	3 9:30-11:30	4	5 9:30-11:30 12:30-2:30
9 9:30-11:30 12:30-2:30	10	11	12