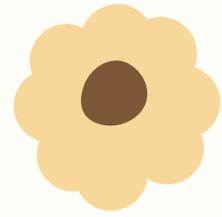




Butte Environmental Council Presents:



Trees & PLEASE



Planting Literacy in Environmental Action & Stewardship Education



By: Miranda Kokoszka; Natural Resources Program Manager



Butte Environmental Council (BEC)

ABOUT BEC

Butte Environmental Council is a 501 (c)(3) nonprofit organization based in Chico, CA. Founded in 1975.

BEC'S MISSION

is to protect and defend the land, air, and water of Butte County and the surrounding region through action, advocacy, and education.



Programs and Events



CLIMATE ACTION

VOLUNTEER ENGAGEMENT

ENVIRONMENTAL EDUCATION

ENVIRONMENTAL ADVOCACY

PARK AND CREEK CLEANUPS

URBAN FOREST PROGRAMS

RECYCLING & RUBBISH EDUCATION

OAK WAY COMMUNITY GARDEN

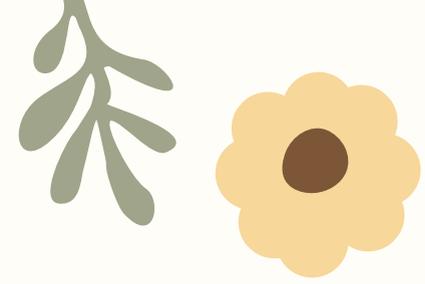
NEIGHBORHOOD COMPOSTING

ENDANGERED EARTH EVENT

CHICO BICYCLE MUSIC FESTIVAL

COMMUNITY FORUM SERIES





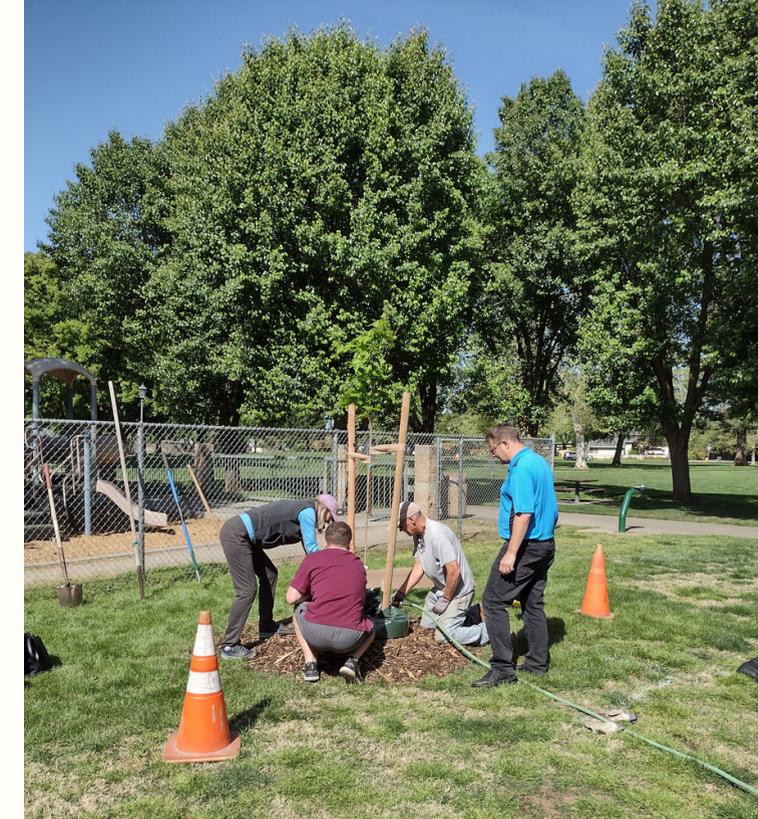
Trees PLEASE

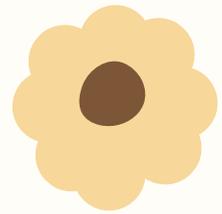


Planting Literacy in Environmental Action & Stewardship Education

PROGRAM OVERVIEW

Trees PLEASE plants 15 gallon shade, ornamental and fruit trees in schools, parks and other community shared spaces.





Trees PLEASE

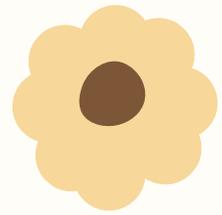


Planting Literacy in Environmental Action & Stewardship Education

IN THE FIELD

Students learn tree planting fundamentals by engaging with staff & volunteers to get trees in the ground.





Trees PLEASE



Planting Literacy in Environmental Action & Stewardship Education

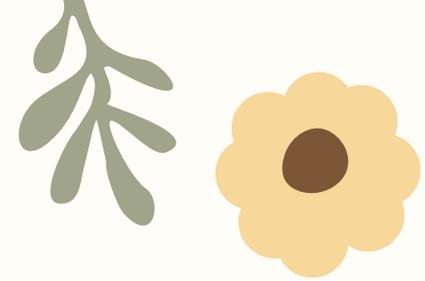
IN THE CLASSROOM

Students learn the important roles that trees play in keeping our communities strong and healthy.

Students gain an understanding of urban forests and surrounding wildlands through a fun and engaging presentation followed by an educational game or participate in a tree planting on their campus.



BEC Educator, Shelby, reading kindergarten students a book before a tree planting on Sherwood Montessori campus.



Trees PLEASE



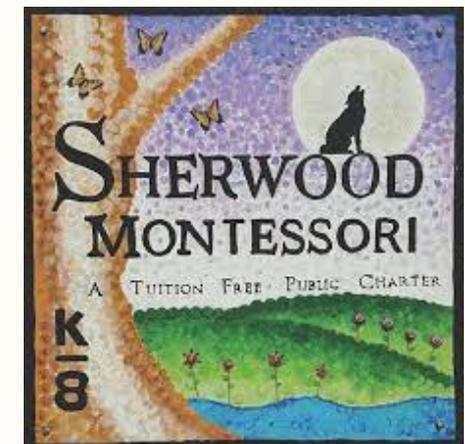
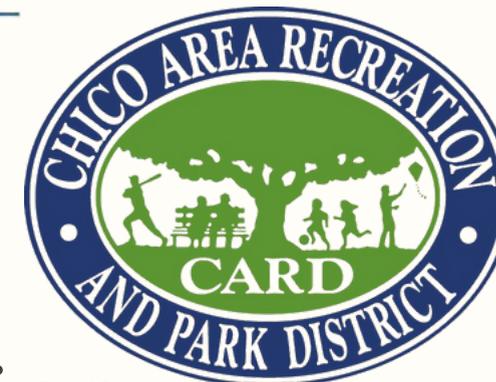
Planting Literacy in Environmental Action & Stewardship Education

COMMUNITY PARTNERS

- City of Chico
 - Urban Forester
- School Districts
 - Chico
 - Gridley
 - Sherwood Montessori
 - Orland
- Parks
 - Chico Area Recreation District
 - City of Oroville Parks and Recreation
 - Paradise Parks and Recreation District



CITY of CHICO





Trees PLEASE

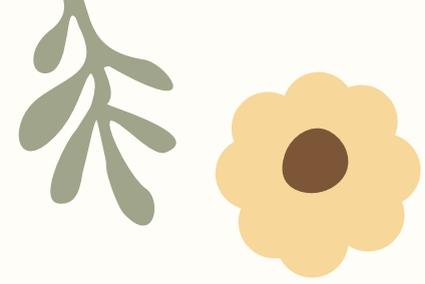


Planting Literacy in Environmental Action & Stewardship Education

TREES FOR SCHOOLS

- (3) 8' metal t-posts
- Coco mat
- Trunk protector
- Mulch





Trees PLEASE

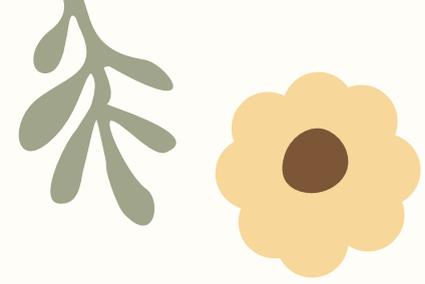


Planting Literacy in Environmental Action & Stewardship Education

TREES FOR PARKS

- (2) 8' wooden t-posts
- Coco mat
- Trunk protector
- Mulch





Trees PLEASE

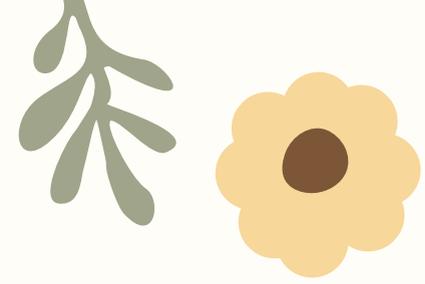


Planting Literacy in Environmental Action & Stewardship Education

SPECIAL CASES

- Caging





Trees PLEASE

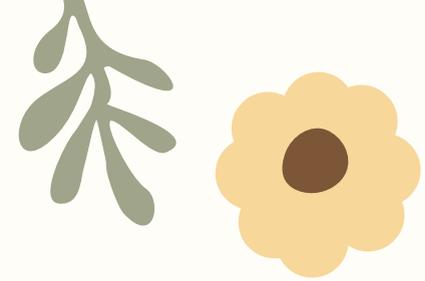


Planting Literacy in Environmental Action & Stewardship Education

SPECIAL CASES

- Ooze tube





Trees PLEASE



Planting Literacy in Environmental Action & Stewardship Education

SIGNAGE

Butte Environmental Council
Protecting Butte County's Land, Air & Water Since 1975

Trees PLEASE

Planting Literacy in Environmental Action and Stewardship Education

Butte Environmental Council aims to educate youth about the importance of trees and wildfire resiliency through our Community Air Protection & Education Program (CAPE) and plant trees on Chico Unified School District Campuses and Chico Area Recreation & Park District parks by the end of 2022!

The benefits of trees:

- Encouragement of healthy lifestyles
- Improvements to mental health
- Increased biodiversity
- Improved air quality
- Increased property values
- Carbon sequestration
- Stormwater runoff mitigation
- Energy savings and temperature regulation

Today's tree planting event:

Neal Dow Elementary
5/17/2022
We planted 5 trees today!

Funding for the California Climate Investments Grant Project has been provided from the Greenhouse Gas Reduction Fund administered by the California Department of Forestry and Fire Protection (CAL FIRE) Urban and Community Forestry Program.

To learn more please visit www.becnet.org

TREES PLEASE

Planting Literacy in Environmental Action & Stewardship Education

I'm a new tree!
I was planted by community volunteers.

clean the air, capture storm water, take carbon out of the atmosphere, and cool nearby buildings.

Butte Environmental Council
Protecting Butte County's Land, Air & Water Since 1975

Learn more by visiting our website www.becnet.org/urbanforest

CALL OR EMAIL US:
530-891-6424
steward@becnet.org

PLANT TREES WITH BEC!
To sign up visit: bit.ly/BEC-TreePlantingVolunteer

This tree is funded by the California ReLeaf Relief through ReLeaf Proposition 68 Grant Program

Butte Environmental Council
Protecting Butte County's Land, Air & Water Since 1975

Trees PLEASE

Planting Literacy in Environmental Action and Stewardship Education

Butte Environmental Council aims to educate youth about the importance of trees and wildfire resiliency through our Community Air Protection & Education Program (CAPE) and plant trees on Chico Unified School District Campuses and Chico Area Recreation & Park District parks by the end of 2022!

The benefits of trees:

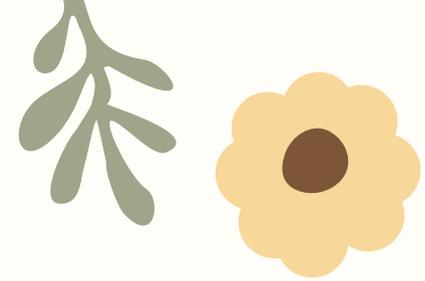
- Encouragement of healthy lifestyles
- Improvements to mental health
- Increased biodiversity
- Improved air quality
- Increased property values
- Carbon sequestration
- Stormwater runoff mitigation
- Energy savings and temperature regulation

Today's tree planting event:

Oak Way Community Park
Chico, CA
April 5, 2022
We planted 12 trees!

Funding for the California Climate Investments Grant Project has been provided from the Greenhouse Gas Reduction Fund administered by the California Department of Forestry and Fire Protection (CAL FIRE) Urban and Community Forestry Program.

To learn more please visit www.becnet.org



Trees PLEASE



Planting Literacy in Environmental Action & Stewardship Education

EDUCATION



Trees PLEASE
Planting Literacy in Environmental Action and Stewardship Education

This book is presented to: Lloyd Hightower's class
Grade: _____ on Dec 2022 date
at Pleasant Valley High school.

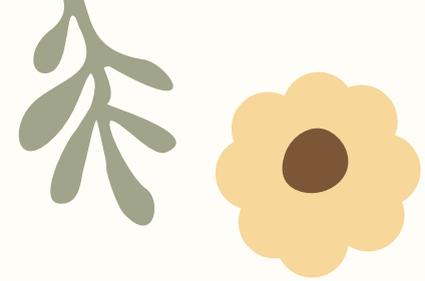
The benefits of trees:

Encouragement of healthy lifestyles	Increased property values
Improvements to mental health	Carbon sequestration
Increased biodiversity	Stormwater runoff mitigation
Improved air quality	Energy savings and temperature regulation

About the Trees PLEASE Program
Butte Environmental Council aims to educate youth about the importance of trees, tree planting, and climate change resiliency through the Trees PLEASE workshops and planting events. BEC plants trees on school campuses and in community green spaces in Butte County and the surrounding region so that people of all ages can enjoy the benefits of trees for decades to come.

Funding for the California Climate Investments Grant Project has been provided from the Greenhouse Gas Reduction Fund administered by the California Department of Forestry and Fire Protection (CAL FIRE) Urban and Community Forestry Program.
Thank YOU for participating with us!! **RELEAF**
Learn more about Butte Environmental Council at www.becnet.org

Save Our Trees!



Trees PLEASE



Planting Literacy in Environmental Action & Stewardship Education

EDUCATION



This book belongs to:

About BEC's Trees PLEASE Program

Trees PLEASE is a program offered by Butte Environmental Council. Involved students will receive education about planting literacy, environmental action, and stewardship education through classroom workshops and hands on learning through planting trees with staff and volunteers - students choose to get their hands dirty!

In the classroom, students will learn the important roles that trees play in keeping our community strong and healthy. Students will learn about the carbon cycle, Chico's urban forest and fire and land management.

In the field, students will learn tree planting fundamentals by engaging with staff and volunteers to get trees in the ground!

This project is important for many reasons, it exposes youth to potential land management careers by educating and involving them in the planting process, adds beauty to the landscape, provides shade, reduces greenhouse gases (GHG), lowers energy consumption & more!

To learn more about workshops, programs, and events hosted by BEC, please visit www.becnet.org

What is an Urban Forest?

An "urban forest" is the mix between trees and human-made components within a city limit. All the trees within the City of Chico help make up our urban forest, including trees in parking lots, along streets, in parks or even in your own yard.

Some of the benefits of an urban forest:

- Provide shade
- Provide food and shelter for wildlife
- Cleans the air that we breathe
- Reduces soil erosion
- Reduces pollution in the air

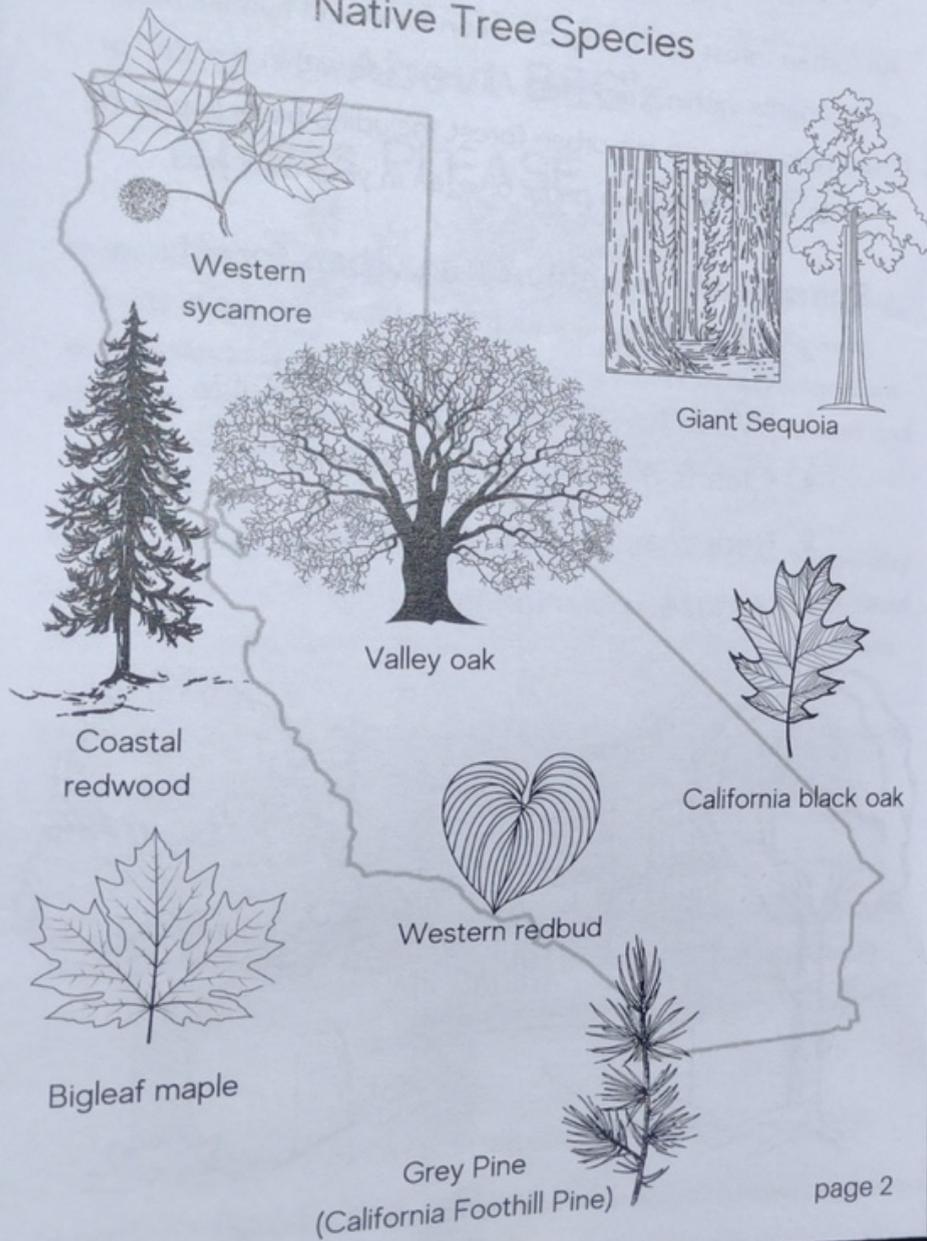


Color It! Which parts of this picture make it "urban"? Which parts make it a "forest"?

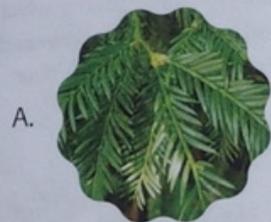
page 1

California

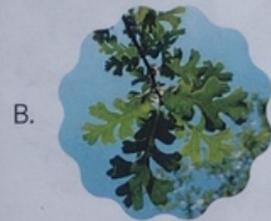
Native Tree Species



Match the Leaf to the California Native Tree!



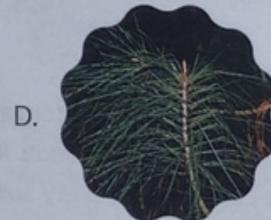
Western redbud



Coastal redwood



Grey Pine



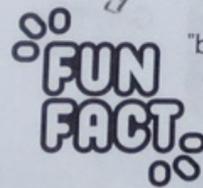
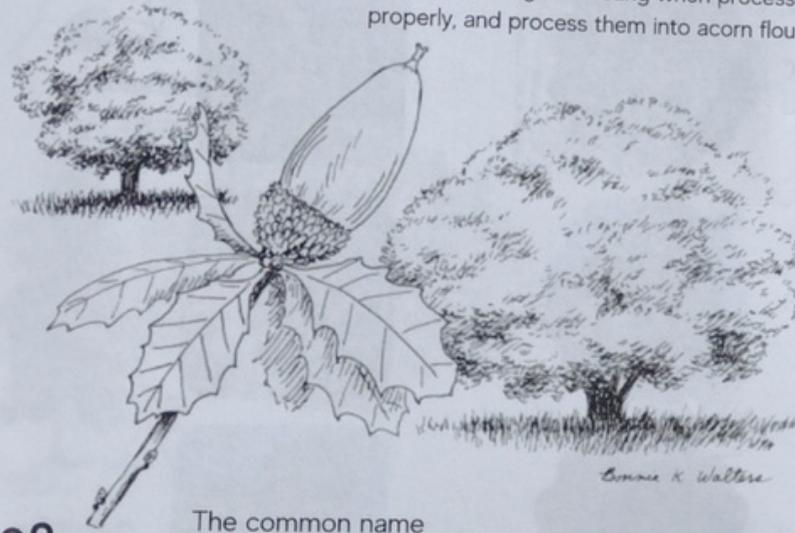
Valley oak

Blue oak

Quercus douglasii

Blue Oak Acorn Uses

Native people commonly gather acorns, which are considered good tasting when processed properly, and process them into acorn flour.



The common name "blue oak" derives from the dark blue-green tint of its leaves.

Different indigenous tribes have their own original name for these amazing trees!

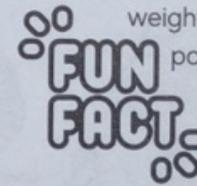
More to learn about this tree

The Blue oak, is a species of oak endemic to (found only in) California, common in the Coast Ranges and the foothills of the Sierra Nevada. It is California's most drought-tolerant deciduous oak, preferring dry soil and plenty of sunlight. Blue oaks are very slow growing tree about 12 inches a year. Individual trees over 500 years old have been recorded!

Grey Pine

Pinus sabiniana

A pine cone can weight up to 10 pounds!



Grey Pine Cone

Pine cones vary greatly in size. The largest cones grow up to 24 inches in length, while most cones are around 3-5 inches tall.



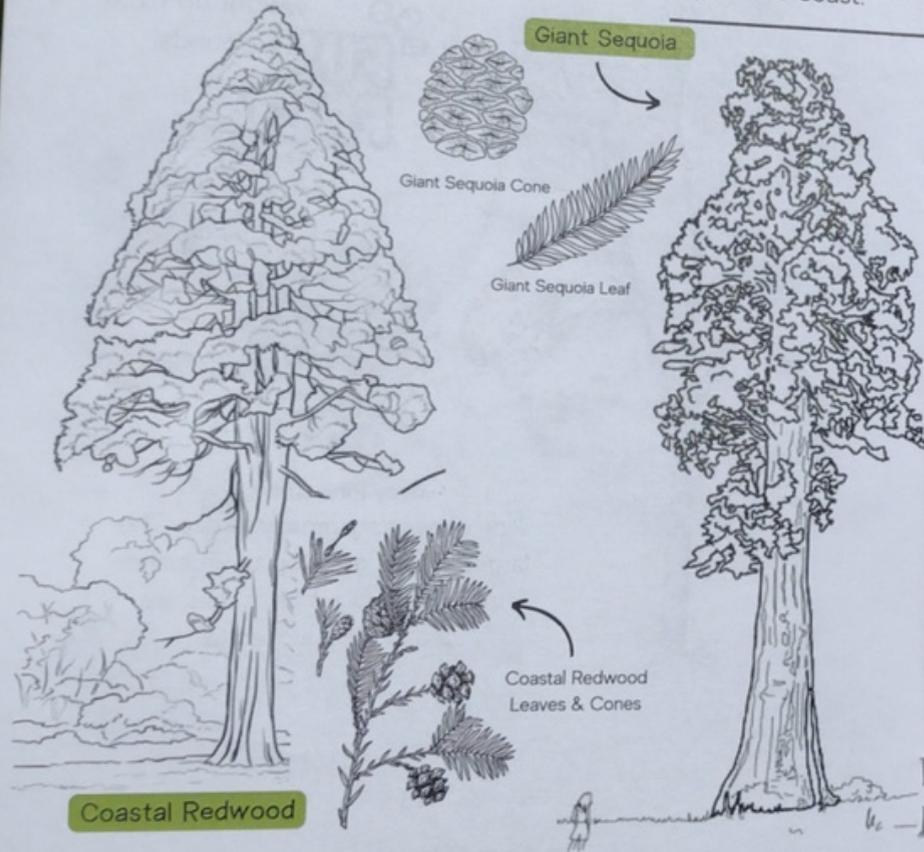
Grey Pine Needles

Length and Structure

Pine needles are diverse in size and structure. The longest pine needles can grow up to 18 inches in length, while the shortest are only 1 inch long. All needles of true pine trees attached directly to the tree branch, but they differ in structure and arrangement.

Western Giants

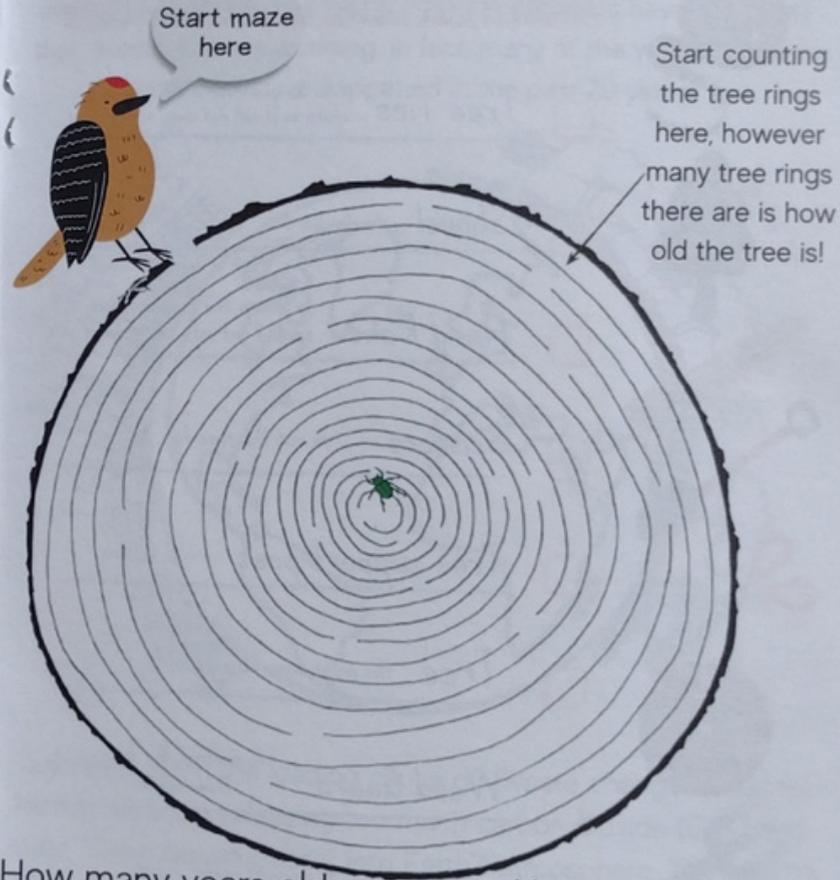
Giant Sequoia trees are the largest trees in terms of volume and trunk size. Their trunks are typically 20 feet in diameter. While similar to the Redwood, Sequoias grow at higher elevations, especially in the Sierra Nevada Mountains and Redwoods grow primarily on the coast.



Coastal Redwoods are the tallest trees in the whole world! And have been on earth almost back to the age of the dinosaurs! Redwoods intertwine their roots to help each other during strong winds and floods. But only 5% of the Redwood forest is left. We need to protect them while they're still here.

Tree Ring Maze

Help the woodpecker make its way through the maze to find the beetle hidden inside the tree.



How many years old is this tree?

How much older than you is this tree?

Planting & Managing our Forests

Below are the materials needed to plant a tree.
Draw a line from the material to its matching image.



Materials Checklist

- Tree Ties *to tie your tree onto a support stake so it will not snap in the wind*
- Shovel *to dig the hole*
- Hand Rake *to loosen the roots so they spread out into the ground*
- Scissors *to cut the tree ties*
- Tree support post
- Tree *the most important piece!*
- Weed Guard *to protect the tree from weeds*
- Mulch *to prevent water from evaporating from the soil*

What is Climate Change?

Climate change describes a change in the typical weather for a region – such as high and low temperatures and amount of rainfall – over a long period of time caused by a change in the average temperature across the Earth. Scientists have observed that, overall, Earth is warming. In fact, many of the warmest years on record have happened in the past 20 years.



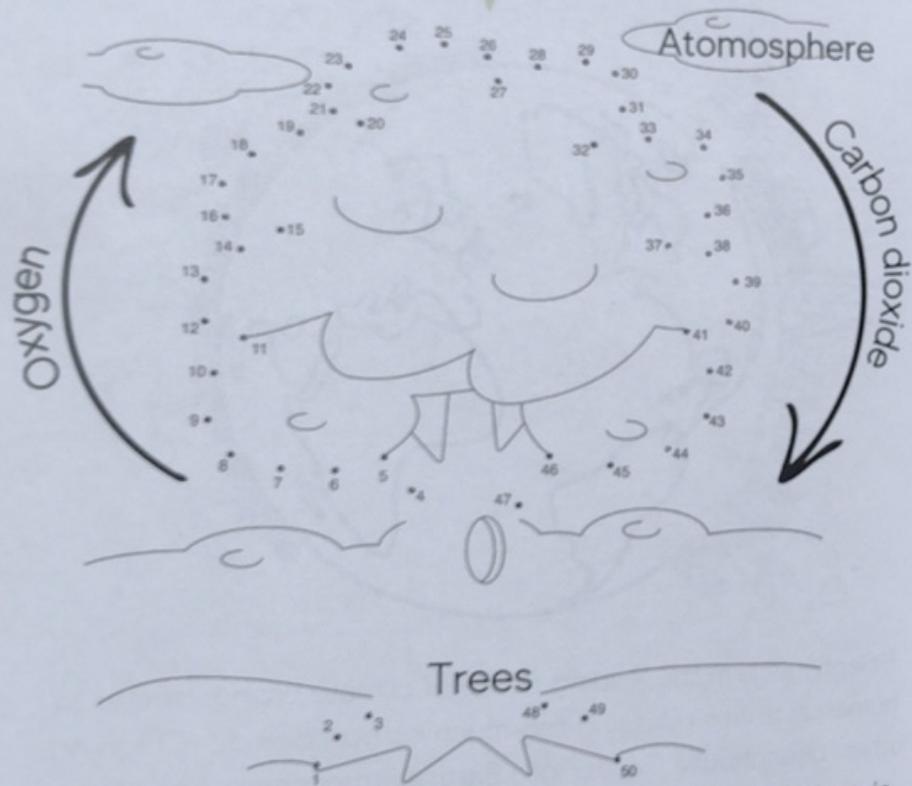
Scientists claim the leading cause of climate change is due to human activities releasing too much carbon dioxide (CO₂) and other "Greenhouse Gases" into Earth's atmosphere. The effects of climate change can be seen through heavy rain storms and flooding or extremely hot summers, drought and wildfire.

Being stewards of our land and planting trees can help mitigate these effects!

Planting Trees Can Help With Climate Change Effects

Planting trees is one of the most effective tools to combat the climate crisis. The idea is to grow a lot of trees to capture carbon dioxide (CO₂), bringing back balance to the earth's carbon cycle.

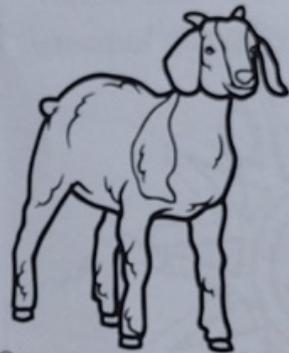
Connect the dots below to build a clean air machine!



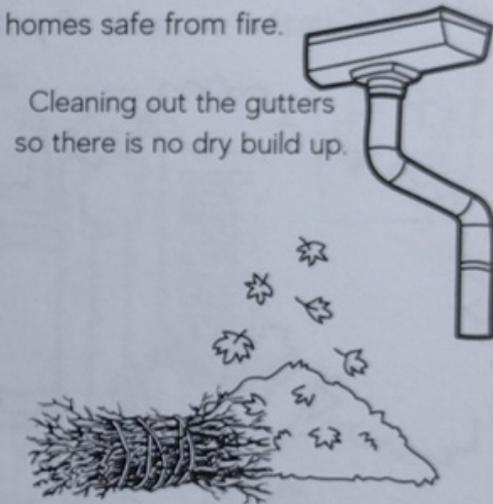
Protecting and stewarding the forests of Earth, including the rain forests, the redwood forests, and even kelp forests in the ocean, will clean up our atmosphere and help us fight climate change.

How to keep our community forest systems healthy and safe

When summer comes the weather warms, drying grass, trees and other plants. Dry materials are what contribute to a big catastrophic fire. People living in the "Wildland-Urban Interface" or WUI (people who live in areas with vegetation near houses and little clearance) have a responsibility when it comes to keeping their homes safe from fire.

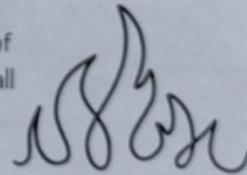


Goats are used to graze large dry fields.



Picking up dried branches and leaf piles around the home can reduce risk of fire.

A practice that has been used for thousands of years by native people, using "good fire" in small controlled burns reduces large fire risk and returns nutrients to the soil.

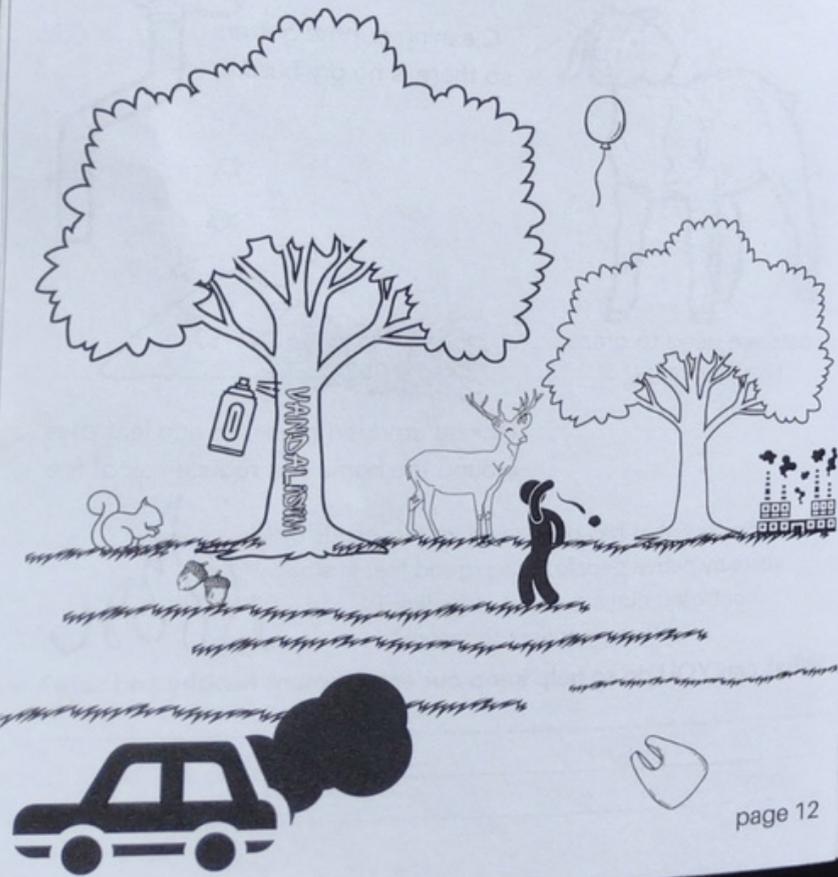


What can YOU do to help keep our environment healthy and safe?

Taking Environmental Action

Pollution happens everyday! This is why we practice environmental action-actively working to help the environment. This can be done in a number of different ways including stopping pollution.

Circle the sources of pollutants below.



How Can WE Prevent Climate Change?

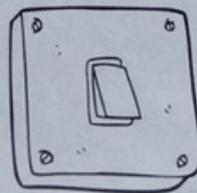
Practice Reduce, Reuse, Recycle and Rot!



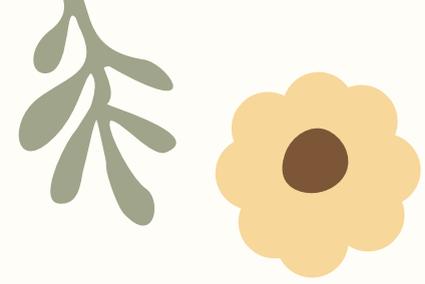
Ride a bike or walk instead of going by car



Turn off lights and use natural lighting when possible.



Plant a tree!



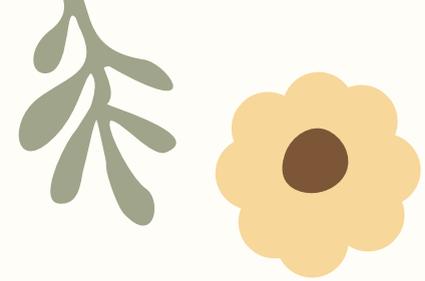
Trees PLEASE



Planting Literacy in Environmental Action & Stewardship Education

SCHOOL TREE PLANTING EVENTS





Trees PLEASE



Planting Literacy in Environmental Action & Stewardship Education

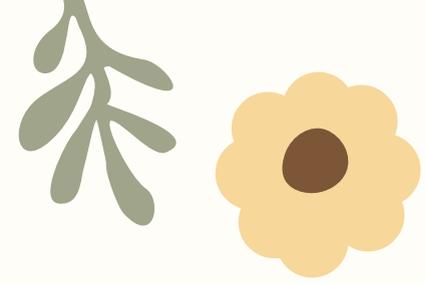
PARKVIEW ELEMENTARY SCHOOL

4 TREES



This book was presented to
Parkview Elementary School
5th grade graduating class of
Ms. Janos,
in
Recognition of participation
in the
National Arbor Day
Celebration
April 29th, 2022
And the planting of a
"Red push" pistache tree.
(Treekeeper Assort # 73004)





Trees PLEASE

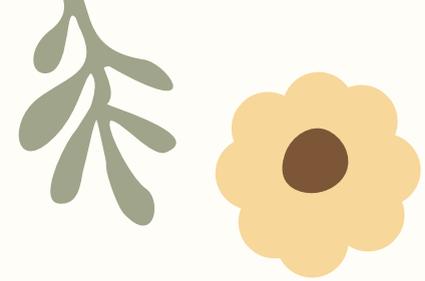


Planting Literacy in Environmental Action & Stewardship Education

ROSEDALE ELEMENTARY SCHOOL

5 TREES





Trees PLEASE

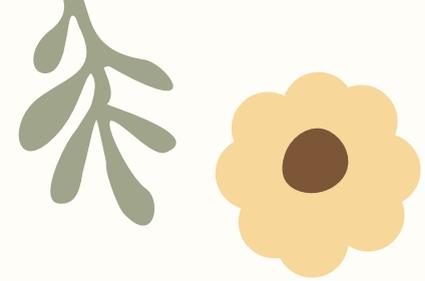


Planting Literacy in Environmental Action & Stewardship Education

NEAL DOW ELEMENTARY SCHOOL

5 TREES





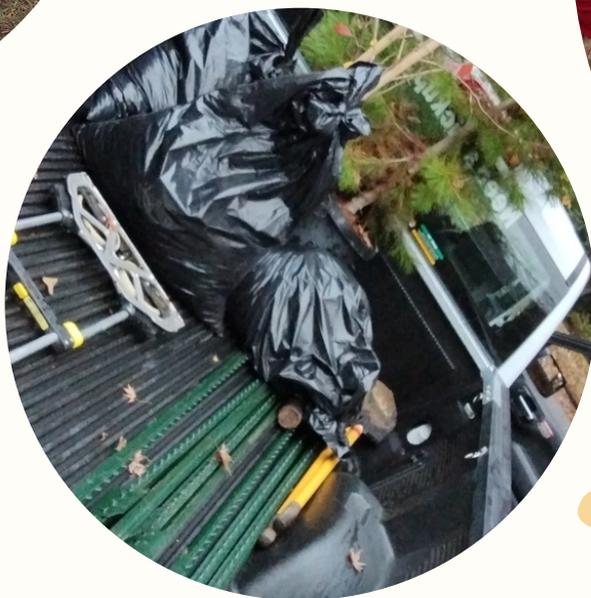
Trees PLEASE

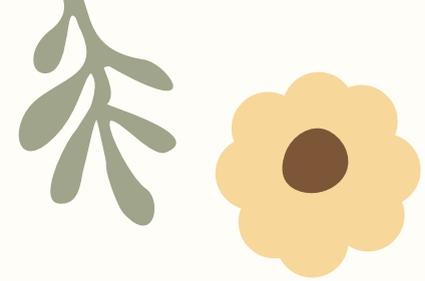


Planting Literacy in Environmental Action & Stewardship Education

HOOKER OAK ELEMENTARY SCHOOL

14 TREES





Trees PLEASE

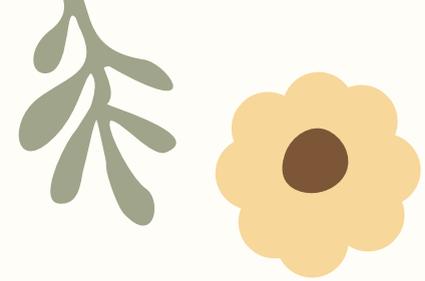


Planting Literacy in Environmental Action & Stewardship Education

PLEASANT VALLEY HIGH SCHOOL

5 TREES





Trees PLEASE

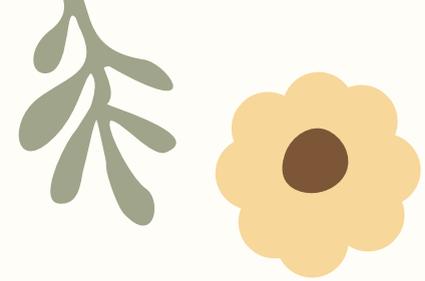


Planting Literacy in Environmental Action & Stewardship Education

CHAPMAN ELEMENTARY SCHOOL

15 TREES





Trees PLEASE

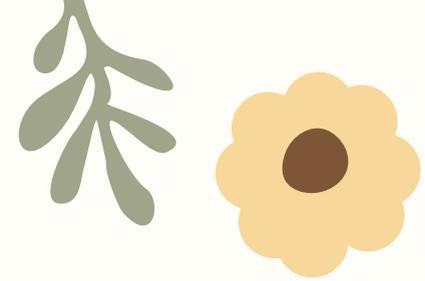


Planting Literacy in Environmental Action & Stewardship Education

SHERWOOD MONTESSORI SCHOOL

5 TREES





Trees PLEASE

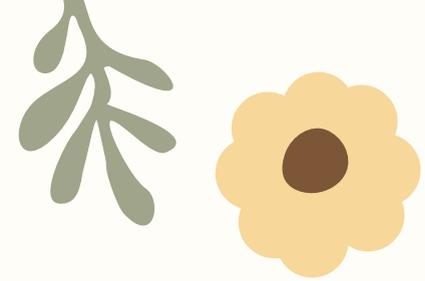


Planting Literacy in Environmental Action & Stewardship Education

LITTLE CHICO CREEK ELEMENTARY

10 TREES





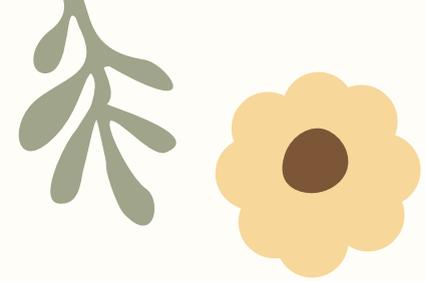
Trees PLEASE



Planting Literacy in Environmental Action & Stewardship Education

PARK TREE PLANTING EVENTS





Trees PLEASE

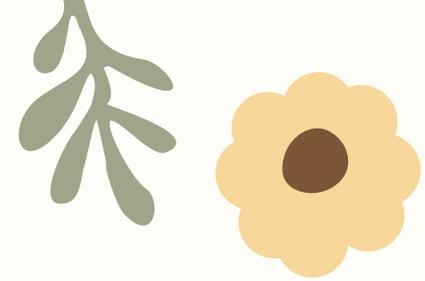


Planting Literacy in Environmental Action & Stewardship Education

OAK WAY COMMUNITY PARK

12 TREES





Trees & PLEASE

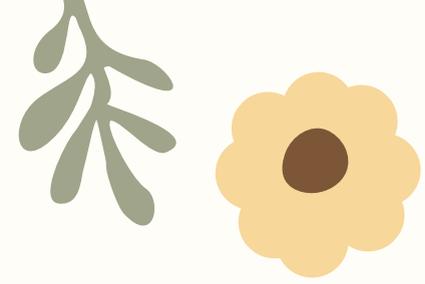


Planting Literacy in Environmental Action & Stewardship Education

NOBLE PARK, PARADISE

200+ TREES





Trees PLEASE

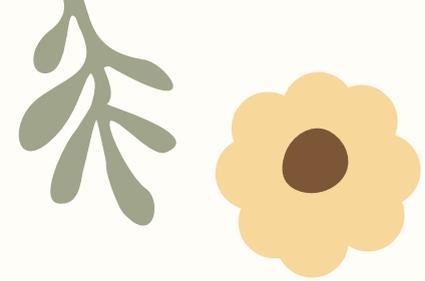


Planting Literacy in Environmental Action & Stewardship Education

20TH ST COMMUNITY PARK

12 TREES





Trees PLEASE

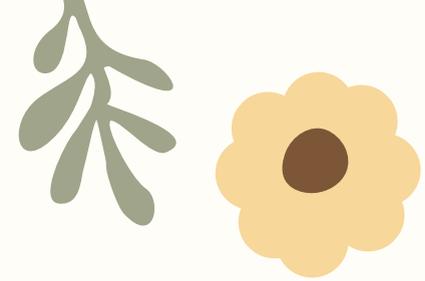


Planting Literacy in Environmental Action & Stewardship Education

CENTENNIAL PARK, OROVILLE

11 TREES





Trees PLEASE

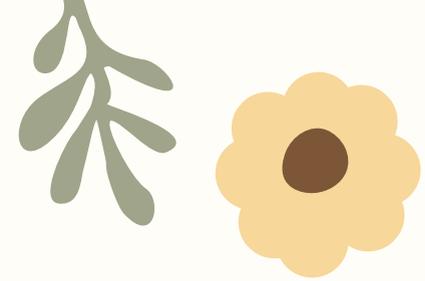


Planting Literacy in Environmental Action & Stewardship Education

CARD COMMUNITY CENTER

3 TREES





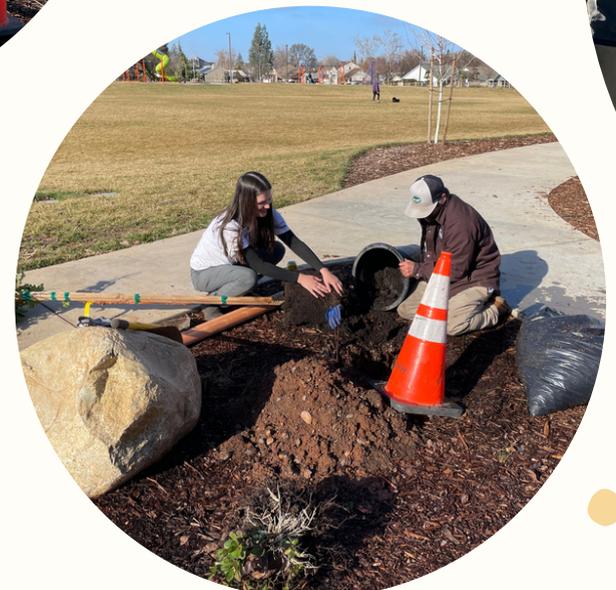
Trees PLEASE



Planting Literacy in Environmental Action & Stewardship Education

ROTARY CENTENNIAL PLAZA

6 TREES



Trees PLEASE
 Planting Literacy in Environmental Action and Stewardship Education

The benefits of trees:

- Air purification
- Carbon sequestration
- Noise reduction
- Energy conservation
- Improved air quality
- Increased property values
- Improved mental health
- Improved physical health
- Improved social cohesion
- Improved community resilience

Today's tree planting event:

DECEMBER 28, 2022
 16 Trees at Rotary Centennial Park with CARD
 2 Valley Oak
 2 Cork Oak
 2 Strawberry Tree
 Chico, CA
 92 Trees in 2022



Trees PLEASE



Planting Literacy in Environmental Action & Stewardship Education

HMONG CULTURAL CENTER

5 TREES





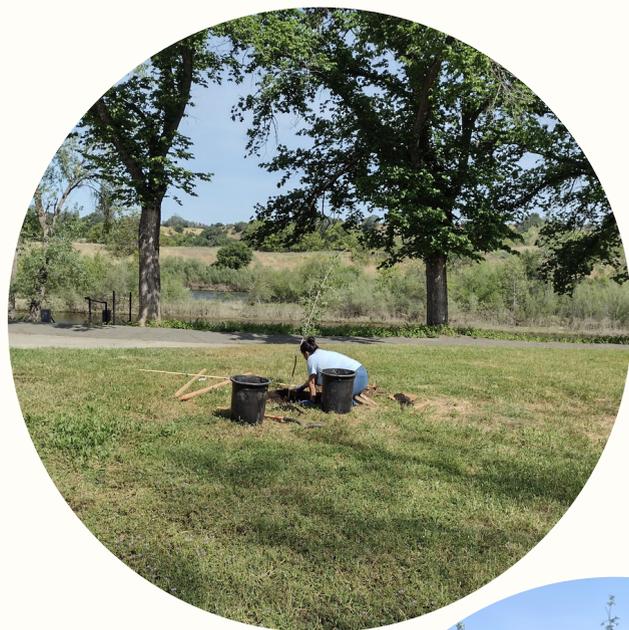
Trees & PLEASE

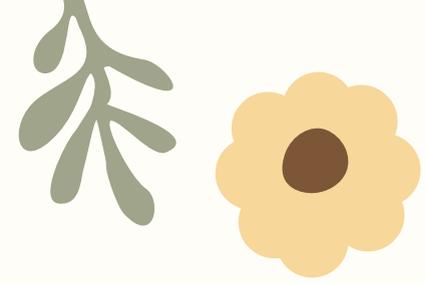


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BEDROCK PARK, OROVILLE

10 TREES





Trees PLEASE

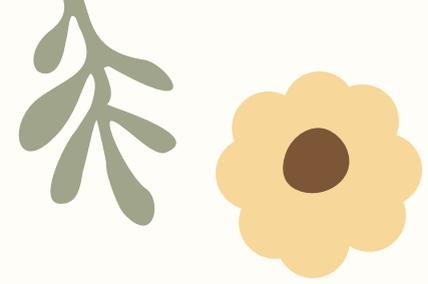


Planting Literacy in Environmental Action & Stewardship Education

NATURE CENTER, OROVILLE

8 TREES





Trees PLEASE



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UPCOMING EVENTS

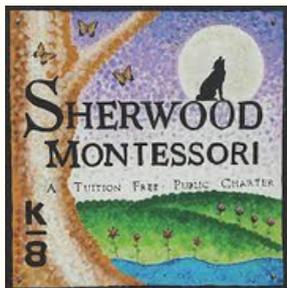
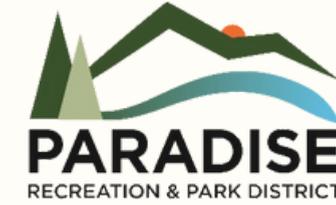
- Hewitt Park - May 2023
- Gridley High School - June 2023
- Orland School Dist. - September 2023



Thank you!



CITY of CHICO



Office of the Governor

