

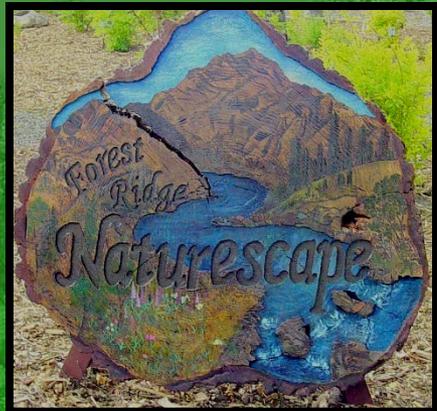


Birds, Bats, and Butterflies



Presented by
Forest Ridge Elementary
2007

Forest Ridge
Elementary students,
staff, families and
community have
created a
“**Naturescape**”
where students learn
about Northwest
native species,
habitats and
ecosystems.



It includes a:

Butterfly Garden

Rock~Moss Garden

Mini Wetland

**Community Fruit
& Vegetable Garden**

**& Bird
Features**



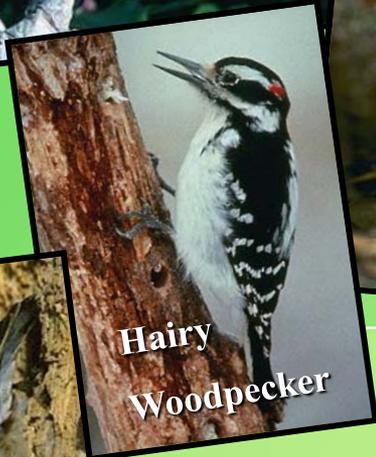
NW Birds



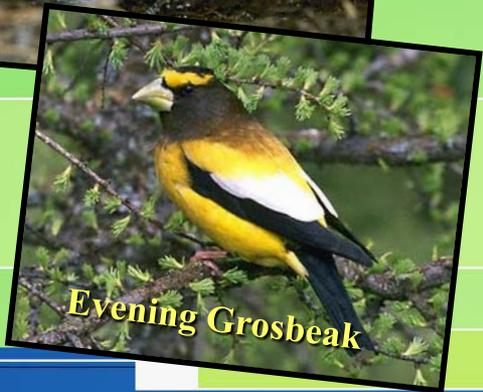
Western Scrub Jay



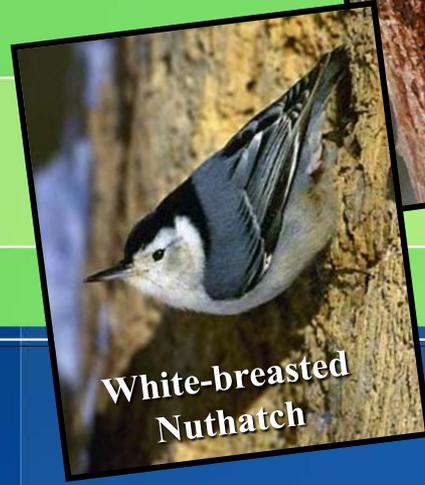
Western Tanager



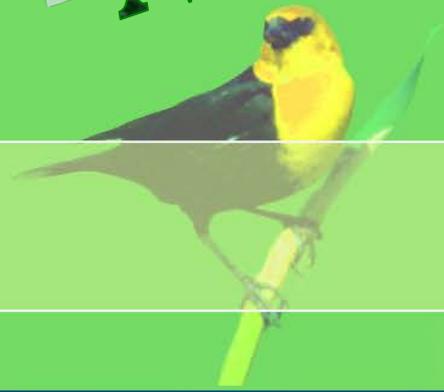
Hairy Woodpecker



Evening Grosbeak



White-breasted Nuthatch



Bird Features-

We have a variety of food, nesting and water features, to attract native birds to our Naturescape.

Forest Ridge Naturescape

INFORMATION/PROJECT BOX

In these boxes you will find identification guides, specimens and grade level focus project work doolows.



BUTTERFLY GARDEN

The flowers growing here also attract Hummingbirds. There are a variety of butterfly species native to the northwest. These will be published soon.

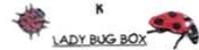


Nut Hatch

Suet Feeder

This feeder will attract:

- *Chickadees
- *Nut Hatches
- *Wood Peckers



LADY BUG BOX

Lady bugs (and the Praying Mantis that have been released in the Naturescape) are natural pest controllers, instead of using harmful chemicals. (Integrated Pest Management - IPM)

BAT BOX



This box houses up to 100 Little Brown Bats. One bat can consume up to 600 insects in one hour! This helps control pests in a natural way instead of using harmful chemicals. (Integrated Pest Management - IPM)



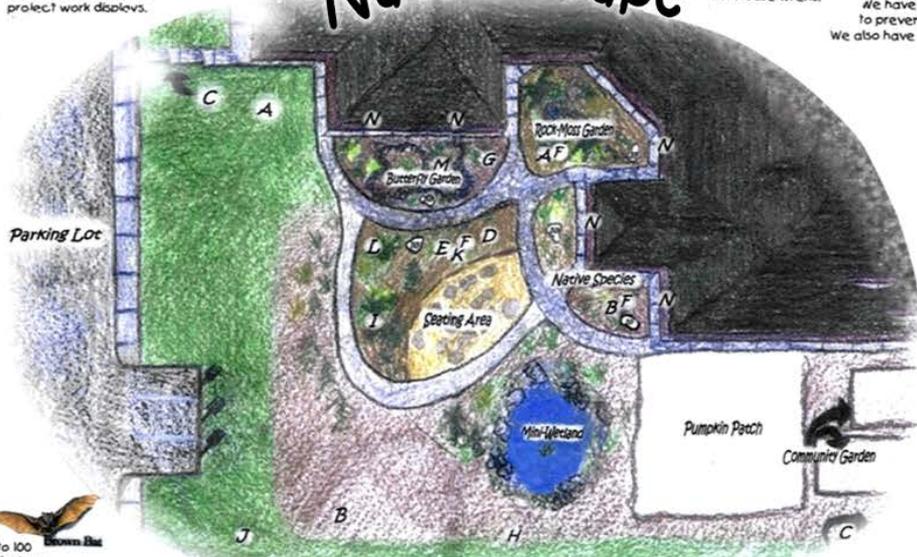
SQUIRREL FEEDER

This feeder is designed to attract squirrels and discourage them from raiding the other bird feeders.

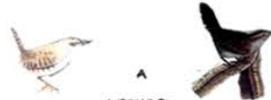
MASON BEE BOX



Mason Bees are non-aggressive. They are great pollinators for our flowering plants.



WREN BOX



These nest boxes were made by Forest Ridge students provide nesting opportunities for House Wrens.

SWALLOW BOX



We have one hanging swallow box to prevent sparrows from entering. We also have two vertically mounted boxes.

CHICKADEE BOX



Chickadees are territorial. Their Boxes are located away from the main area. One is at the back of school properly toward the church. The other is out near the backstop by the track.



Chestnut-backed Chickadee



Chickadee

D

Junco Seed Feeder

This feeder will attract:

- *Chickadees
- *Morning Doves
- *House Finches
- *Purple Finches
- *American Gold Finches
- *Evening Grosbeaks
- *Steller's Jays
- *Scrub Jays
- *Dark Eyed Juncos
- *Pine Siskins
- *Fox Sparrows
- *White Crowned Sparrow
- *Rufous-sided Towhees



Junco



Rufous-Sided Towhee



Dark Eyed Junco



House Finch



Purple Finch



Fox Sparrow



White Crowned Sparrow

E

Thistle/NIWA Feeder

This feeder will attract:

- *Chickadees
- *Finches
- *Morning Doves
- *American Goldfinches



Chickadee



Finch



Morning Dove



American Gold Finch



Anna's Hummingbird

Hummingbird Feeder

This feeder will attract: Ruby-throated Hummingbird, Anna's Hummingbird



Ruby-throated Hummingbird



Purple Finch

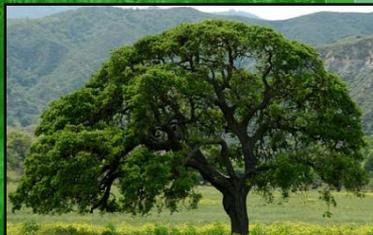


American Gold Finch

Attract birds to your schoolyard or backyard by planting any of these native species :



<u>Shrubs</u>	<u>Trees</u>	<u>Flowers</u>	<u>Nectar Plants</u>
Oregon Grape	Apple	Aster	Columbine
Ocean Spray	Balsam fir	Cornflower	Lily
Juniper	Black Cherry	Coreopsis	Lupine
Red-Osier Dogwood	American Beach	Black-eyed Susan	American Beech Yarrow
Serviceberry	Red Mulberry	Sunflower	Petunia
Huckleberry	Cottonwood	Bluebeard	Phlox
Elderberry		Cosmos	Snapdragon
Viburnums	Hawthorn	Fuchsia	Nasturtium
Hazel	Oaks	Hollyhock	Nicotiana



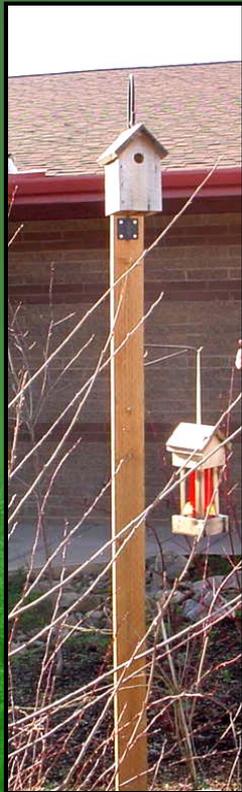
Place a variety of bird feeders to attract different species in a highly visible area and watch the birds arrive and thrive .

<u>Suet</u>	<u>Sunflower Seed</u>	<u>Thistle/ Niger</u>	<u>Hummingbird</u>
Chickadee	Fox Sparrow	Chickadee	Anna's
Nuthatch	Mourning Dove	Mourning Dove	Rufus
Woodpeckers	American Goldfinch	American Goldfinch	Ruby Throated
	House Finch		
	Dark-Eyed Junco		



Habitat

Our Naturescape offers food, water and nesting opportunities to a variety of native bird species.



Correctly placed nest boxes will
also host families of birds.

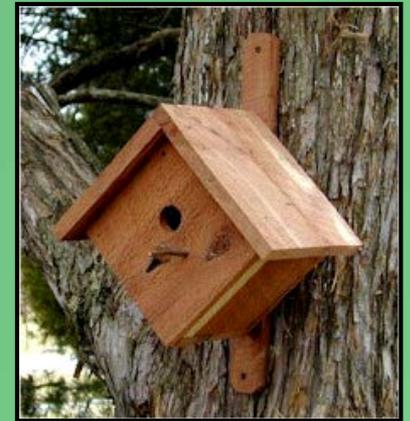
The Audubon Society,
has many from which to choose:



Swallow



Chickadee



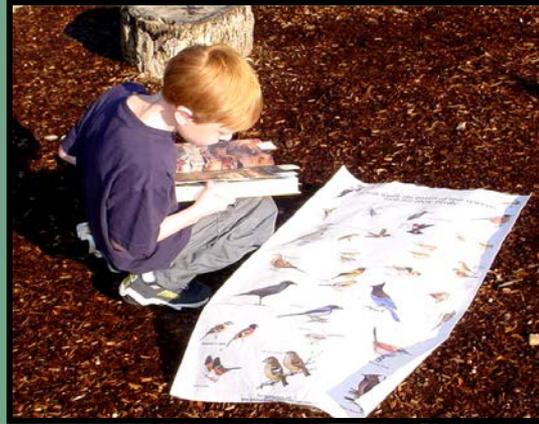
Wren

WATER is an essential part
of any wildlife habitat,
birds need it for drinking and bathing.



BIRD BATH TIPS:

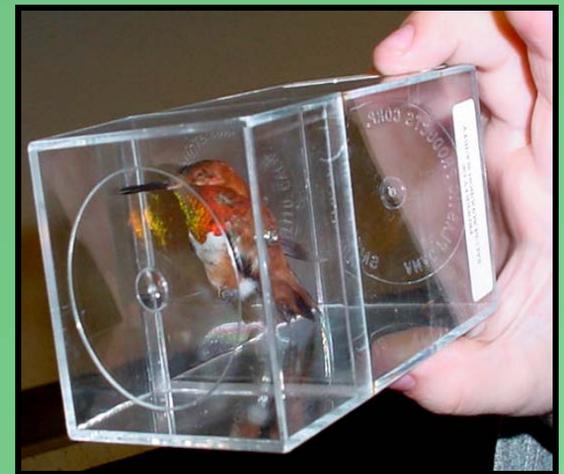
- ~ Shallow Depth: 1½ to 3 inches ~
- ~ Rough surface for secure footing ~
- ~ Needs to be cleaned each week ~
- ~ Beware of stalking cats ~



Students create
BIRD BROCHURES
to educate the public
about native species.

Salem Audubon

The Salem Audubon Society provides education about native bird species adaptations and beginning field guide usage through their “Birds In Hand” class.



As a “Roots & Shoots” school we show care and concern for animals, the environment and the human community.



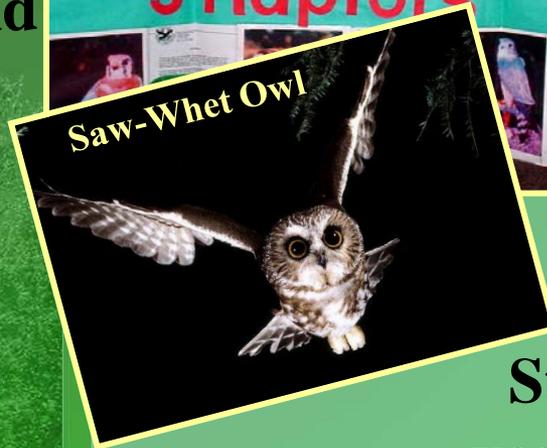
American Kestrel

Red-tailed Hawk



Forest Ridge
Falcons continue
to Support our
3 Raptors

• Please Bring your
Spare Change



Saw-Whet Owl

Students raise funds each year to continue the support of our adopted Oregon Raptor Center birds.

Falcons



***There are 39 species of Falcon.**

***The Kestrel is the smallest falcon found in North America.**

***Kestrels eat insects, small rodents and birds.**

***Peregrines are the fastest of the falcons.**

***Peregrine Falcons are about the size of a crow.**

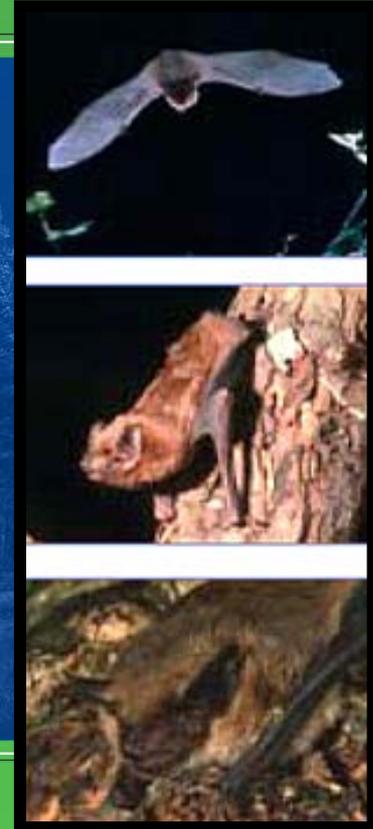
***Baby Peregrines begin flying in about 40 days.**

***When Peregrine moms leave the nest, dad will sit on the eggs.**





Bats

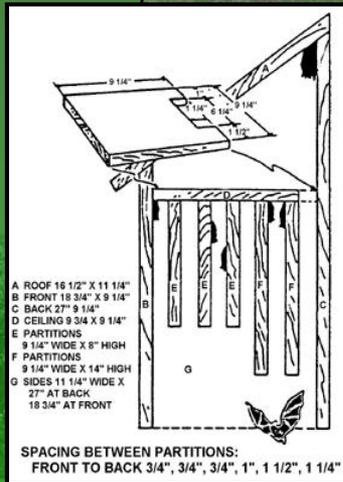




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Believe It or Not,



BATS are Beneficial!

Invite bats into your yard to remove unwanted insects, instead of harmful pesticides or chemicals.

A single little brown bat can catch more than 600 mosquitoes in an hour! They also feed on other harmful forest and crop pests.



Buy or build a bat house!

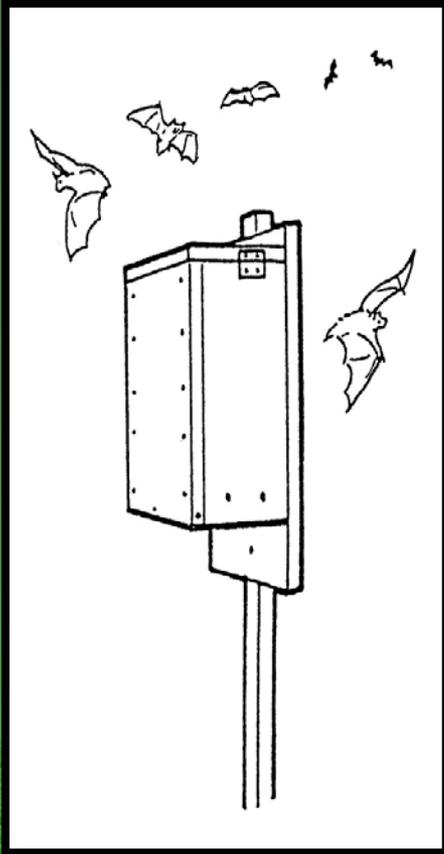
Purchase: Call Oregon Department
of Fish & Wildlife
503.872.5264 ext.5366

Build: Call Bat Conservation
International
1.800.538.2287 or go to
www.batcon.org



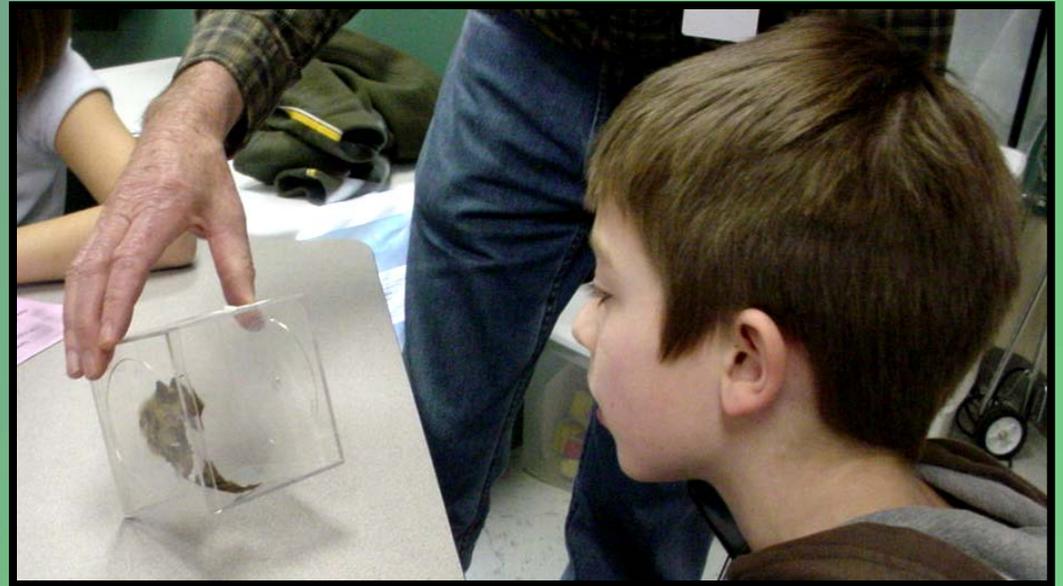
Installation of Bat House

1. Hang the house 14-15 feet high and away from prevailing winds.
2. Ensure a clear flight path into and out of the house.
3. Bats will choose houses that remain between 80-100 degrees, so make sure the house receives 6 -8 hours of direct sun.
4. In western Oregon, paint the outside of the box with 2 coats of black, non toxic flat exterior latex paint and place the house facing south.
5. Clean the bat house in early spring



Bat Education

Students learn about bats and their value in integrated pest management.



Salem Audubon Society
provides education through their
“All About Bats” class.

Some Interesting Bat Facts

- **Bats help control the insect population. A single little brown bat can catch 600 Mosquitoes in just one hour!**
- **Bat's wings are actually hands.**
- **12 species of bats live in Douglas-fir forests of the Pacific NW.**
- **Of the forty species that live in North America, seven are listed as endangered species.**
- **Bats have only 1 baby a year.**
- **Besides insects, bats eat fish, frogs, fruit, nectar and blood from other animals.**
- **There are almost 1,000 species of bats and only 3 are considered vampires.**



Stewardship through Bat Houses



Stewardship is another way we show care and concern for our environment. We received bat houses from O.S.U.'s "Wildlife, Watersheds and Whatnot," students.

We installed them at Willamette Mission State Park as part of our S.O.L.V. participation with "Down By the Riverside" and Project Oregon.

Butterflies



Another feature, in our Naturescape, is a Butterfly Garden!

Oregon has more than 150
butterfly species and 20% of
those live only in western
Oregon.



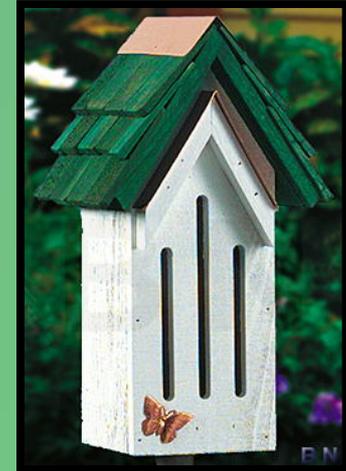
Butterfly Garden Essentials



~ Sunlight



Cover ~

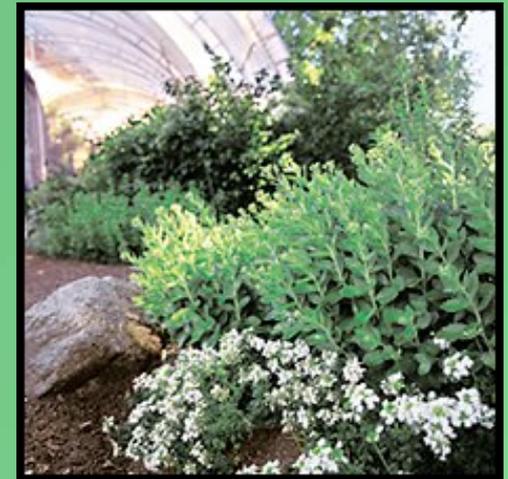


~ Water



Nectar plants ~
(adult butterfly food)

Host plants ~
(larval food)



Favorite Colors

Butterflies are especially attracted to a variety of white, yellow, or lavender plant species, that will bloom through October.

<u>Host Plants</u>		<u>Nectar Plants</u>			
	Anise		Aster		
	Aster Fennel			Blanket Flower	
	Hollyhock				Caledula
	Lupine			Delphinium	
	Mallow				Mint
	Milkweed			Sweet Alyssum	
	Sunflower				Yarrow
	Thistle			Lavender	





DO NOT plant
Butterfly Bush;
it is an invasive
species.



More Butterfly-Friendly Plants

<u>Vines</u>	<u>Shrubs</u>	<u>Trees</u>
Clematis	Flowering Gooseberry	Crabapple
Trumpet	Red-Flowering Currant	Hawthorn
Honeysuckle	Great Hedge Nettle	Madrone
Scarlet Runner Bean	Chinese Lantern	

Butterfly Puddles

Butterflies cannot drink from open water.
To build a water source for them:

- 1) Fill a bucket with sand
- 2) Bury the bucket to within $\frac{1}{4}$ inch of the rim
- 3) Fill bucket with water
- 4) Provide perching rocks or sticks on top of sand
- 5) Do not let water float over the top of the sand



**Build a
BUTTERFLY GARDEN!**



Endangered Species

and the

Fender's Blue Butterfly



- Students at Forest Ridge learn about endangered species each year, like Fender's Blue.
- Every species has unique survival needs and often their decline is due to a loss of habitat or source of food.
- This is the case with Fenders Blue. It's host plant, Kincaid's Lupine, is threatened.
- We hope to begin habitat restoration projects soon.



Stewardship

Students show their care and concern for the environment by planting and mulching native plant species at the Audubon Nature Reserve.



**If you are interested in attracting
wildlife through naturescaping . . .**

**Ask about our
“Naturescape Your Schoolyard”
or
“Top Ten Reasons to Go Native
in Your Backyard”**

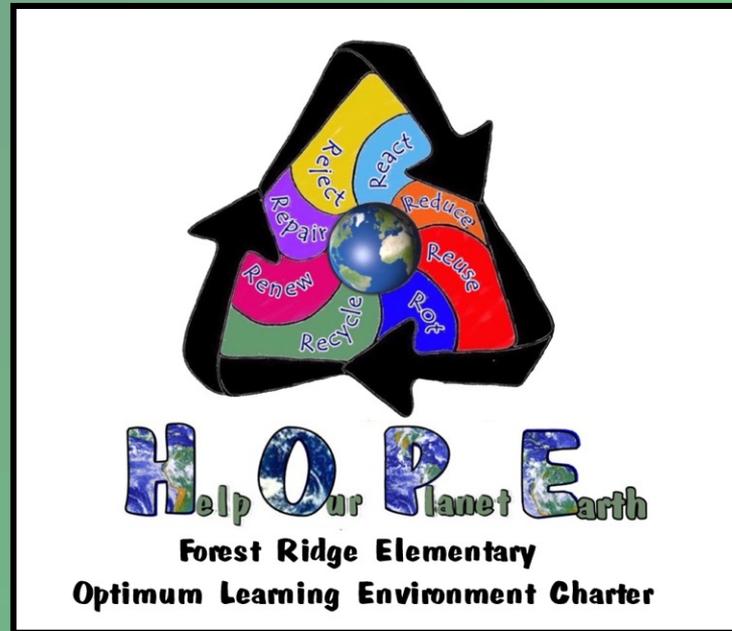


**We HOPE you will
join us . . .**

- **Help**
- **Our**
- **Planet**
- **Earth**



Come visit us!



For more information or
to schedule a tour, contact:

Forest Ridge Elementary

503-399-5548

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