HIGH DESERT MUSEUM

WILDLIFE and LIVING HISTORY

SELF-GUIDED LEARNING EXPEDITION

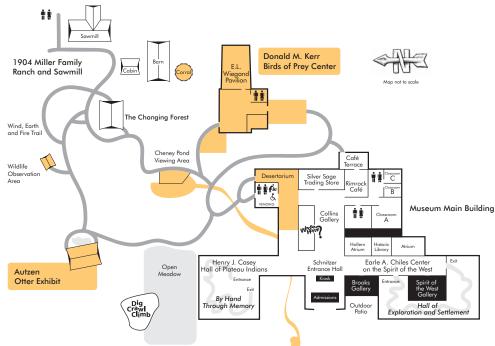


Name

GRADE LEVEL: 4–5 STUDENT GUIDE

On this expedition, you will visit the following areas in order to complete activities related to the theme "Organisms and Ecosystems."

EXHIBIT TITLE	Check (✓) when complete
Donald M. Kerr Birds of Prey Center	
Autzen Otter Exhibit	
Choose one of the following study areas:	
Autzen Otter Exhibit	
• Desertarium.	
Museum stream and Cheney Pond	
• Mustang corral	
Wildlife observation station	
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Connection to Standards

Next Generation Science Standards

Disciplinary Core Ideas

- LS1.A: Structure and Function
- LS2.A: Interdependent Relationship in Ecosystems

HOLLERN ATRIUM | Everything Serves a Purpose

FORM AND FUNCTION

• An adaptation is a body part or behavior that allows an animal to survive in its environment.







OBSERVE AND EXPLAIN

Plants and animals have different ways to defend against or deter predators. What unique feature of porcupines might help protect them from predators?

Draw the body part here:

From catching prey to allowing for movement, feet can serve several functions for animals. What unique feature on its foot helps a porcupine climb? Draw the porcupine's foot here:

DESERTARIUM | A Dry World: High Desert Life

ANIMAL ADAPTATIONS

- An adaptation is a body part or behavior that helps an animal survive in its environment.
- In this exhibit, explore the adaptations that help these animals survive in dry environments like the High Desert. *Hint: find your answers by looking at the animals and by reading information on the exhibit panels.*

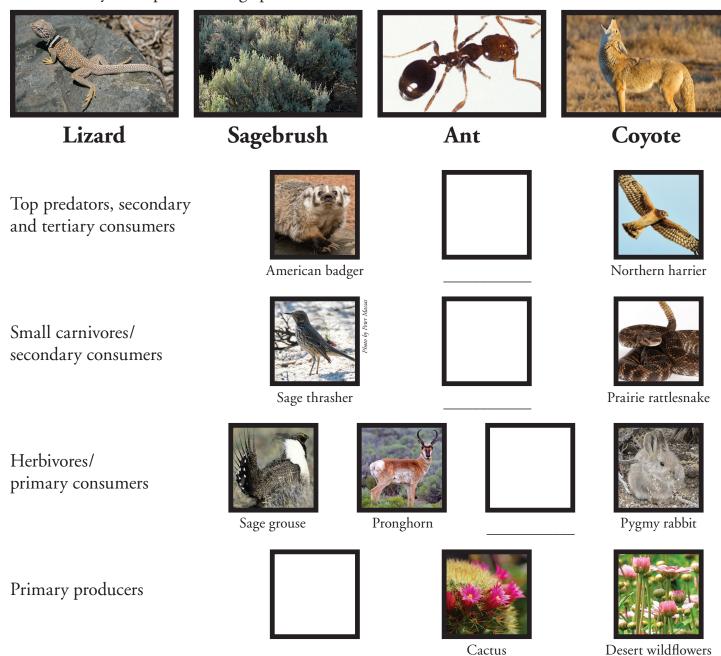
FILL IN THE BLANK

WORD BANK							
sun	water	roots	rocks	leaves	hiss		
Gila monste	r Great	t Basin gopl	ner snake	California l	kingsnake		
1 in the	desert is prec	cious and scarc	e so animals ar	nd plants must co	nserve it.		
2. Plants are able to resist drought by having special and Sagebrush plants have a coat of fine hairs on the leaves to reflect heat and slow water loss.							
3. When disturbed, I will rise to a striking position, flatten my head, hiss loudly and shake my tail. You might mistake me for a rattlesnake, but I am a							
4. To protect itself from predators, the burrowing owl has brown feathers to camouflage itself within dry grass. If a predator enters the burrow, the young owls will like a snake to scare the predator away.							
5. Draw the tortoise's	s habitat:		6. Draw and name what the tortoise eats:				

DESERTARIUM | Energy in the Ecosystem

THE SAGEBRUSH SEA: FOOD WEB

Label and draw the following organisms in the correct spaces below to show how food energy makes its way from plants to large predators.



Discuss

When an animal dies in the ecosystem, what happens to the stored energy within that animal?

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ranges with ponderosa pine forests, streams and wide meadows with aspen. After reading the panels,

fill in the blanks with the names of the organisms that can be found in each of the habitats.

HEALTHY ECOSYSTEMS

Find the "High Desert Ecoregions" panel at the Birds of Prey Center. (across from the barn owl exhibit)

1. The High Desert is a unique region that includes many different landscapes, such as mountain

Shrub-steppe	Riparian	Aspen
Carnivore:	Carnivore:	Carnivore:
Producer:	Producer:	Producer:

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HEALTHY ECOSYSTEMS

Ecosystem Roles

- Producers are organisms that use sunlight, water and nutrients to make their own food.
- **Herbivores** are organisms that consume plants.
- Carnivores are organisms that consume animals.
- Omnivores are organisms that consume both plants and animals.
- Decomposers are organisms that break down dead plants and animals.

Find the great horned owl within the Donald M. Kerr Birds of Prey Center.

1. In the table below, list the plants and animals that are in the owl's home. To complete the table, use your imagination to describe the ones that you don't see, but could be present in a great horned owl's forest habitat.

Energy Source	Producers	Herbivores	Carnivores	Decomposers
SUN	1. Tree	1.	1.	1.
	2.	2. Mouse	2.	2.

2. Choose six plants and animals from the table above and write their names in the squares below. Draw arrows between the squares to show how they are related. For example, a mouse would eat the seeds of a wildflower.

