Science cards

Animals and Ecosystems

Animals:

- Beaver
- Bear
- Black-tailed Deer
- Wolf
- Brush Rabbit

Ecosystems:

- River
- Forest
- Stream
- Lake/Pond
- Meadow

Created for Confederated Tribes of the Coos, Lower Umpqua, and Siuslaw Indians SB 13 Curriculum

Educator Instructions:

1. Print the slides 3 through 24 on both sides.
2. Use heavier paper and laminate for durability.
3. You may leave cards whole to support early readers as they learn new vocabulary.
4. You may also cut the cards in half to create a matching game for individuals, pairs, or small groups.

Card Invitation - Individual

1. Sort the animal cards into two groups:
   - *Ecosystem cards*
   - *Animal cards.*
2. Read about the cards to learn about each animal or place.

   Think about:
   - *What makes this animal special?*
   - *What does this animal need to live?*
   - *How is this ecosystem different from other places?*
3. Match one animal with the ecosystem where it would most likely live.
4. After you make a match, answer these questions:
   - *Where does the animal get water?*
   - *Where does the animal find food?*
   - *Where does the animal stay safe?*
   - *How much Space does it need?*

Card Invitation - Pairs/Small Group

Memory Match

1. Shuffle all the cards.
2. Make two piles:
    - Picture Cards
    - Description Cards
3. Place both piles face down.
4. Player 1 flips over the top card from each pile.
    - If they match, the player keeps them.
    - If they do not match, place the cards face up on the table.
4. Whether or not a match is made, the turn passes to the next player.
5. Player 2 chooses one card, either from the pile or from any face-up card, to try to make a match.
6. Continue taking turns until all matches are made.
7. The player with the most matches starts the next game.

Pairs:

1. Shuffle the cards and lay them all face down.
2. Players take turns flipping over two cards.
3. If the cards match (animal to ecosystem), the player keeps them and takes another turn.
4. If the two cards do not match, turn them back over in the exact same places.
5. After you turn the cards over, the next player takes their turn.
6. Keep playing until all cards are matched.
7. The player with the most matches gets to start the next game.

tchina
(miluk Coos)

- I set up my home where I find my favorite food and flowing water.
- My favorite foods include leaves, inner bark, and twigs of many deciduous trees.
- I build lodges to rest, store my food, stay warm, and raise my family.
- My ears and nose can seal out water when I swim underwater.
- I am the biggest rodent in North America.



- *What are some adaptations that make this animal unique?*
- *What does this animal need to survive?*

- *Where does the animal find water?*
- *Where does the animal find food?*
- *Where does the animal find shelter?*
- *Where does the animal find space?*

pelel
(miluk Coos)

- I make my home throughout Oregon.
- I like to live in the Coast and Cascade mountains.
- Streams and rivers provide a good place to drink and swim.
- My home, called a den, is found under stumps and logs, or in holes in hillsides.
- My favorite foods include berries, fruit, grasses and plants.
- My color ranges from black to light brown.



pelel (miluk Coos)

Black bear (English)

- *What are some adaptations that make this animal unique?*
- *What does this animal need to survive?*

- *Where does the animal find water?*
- *Where does the animal find food?*
- *Where does the animal find shelter?*
- *Where does the animal find space?*

xwutsxwuu
(miluk Coos)

- I live with my family in dense forests where I can hide from predators.
- My secretive life includes eating seasonally available foods that are high in nutrition.
- I drink water from puddles, creeks, rivers, even raindrops from the plants I eat.
- My tail is wide and triangle shaped with a dark brown or black top.



xwutsxwuu (miluk Coos)

Columbian Black-tailed Deer (English)

- *What are some adaptations that make this animal unique?*
- *What does this animal need to survive?*

- *Where does the animal find water?*
- *Where does the animal find food?*
- *Where does the animal find shelter?*
- *Where does the animal find space?*

dliimek
(miluk Coos)

- My ancestors would roam throughout Oregon in family groups called packs.
- Together, we hunt for food and raise our pups.
- Most of the water in my body comes from the food I eat like deer, elk, small rodents, birds and fish.
- We dig dens with tunnels under hollow logs, rock crevices, or roots of big trees.
- We each have a unique howl.



dliimek (miluk Coos)

Grey wolf (English)

- *What are some adaptations that make this animal unique?*
- *What does this animal need to survive?*

- *Where does the animal find water?*
- *Where does the animal find food?*
- *Where does the animal find shelter?*
- *Where does the animal find space?*

chaxwchaxw
(miluk Coos)

- I need dense grass clumps to eat.
- I hide under thick brush to escape from cougars, coyotes, and bobcats who like to eat me.
- I drink water from shallow water along rivers, creeks, and puddles.
- I run in a zigzag manner when chased.
- I thump the ground with my back feet when I am scared.



chaxwchaxw (miluk Coos)

Brush rabbit (English)

- *What are some adaptations that make this animal unique?*
- *What does this animal need to survive?*

- *Where does the animal find water?*
- *Where does the animal find food?*
- *Where does the animal find shelter?*
- *Where does the animal find space?*



quuiich (miluk Coos)

Photo credits: Amanda Craig Confederated Tribes of Coos, Lower Umpqua, & Siuslaw Indians

I am River

I am the fresh water that holds the canoe afloat.

I am the land that holds water close.

I am home to fishes, insects, plants, and many unseen lives.

I nurture sedges and rushes that make baskets strong.

I am River.

quuiich

- *How is this ecosystem different from other ecosystems?*

- *Where do animals find water?*
- *Where do animals find food?*
- *Where do animals find shelter?*
- *Where do animals find space?*



nuk'wiin (miluk Coos)

Photo Credits: Morgan Heim, Abundance Story Map (W/O permission)

I am Forest

I am the trees, the plants, the animals, and the microbes.

I am the air, the soils, the rocks, and the water.

I am my trees, big, small, deciduous, coniferous, alive and dead.

I provide materials for homes, canoes, art, baskets, medicine, food, and fuel.

I am forest.

nuk'wiin

- *How is this ecosystem different from other ecosystems?*

- *Where do animals find water?*
- *Where do animals find food?*
- *Where do animals find shelter?*
- *Where do animals find space?*



t'əmii (miluk Coos)

I am Stream

I am the water that flows to the river.

I provide shelter, protection, water, and food for many like the salmon, lamprey, beaver, mayfly, and plants.

I am the rocks and soil that my water flows over.

I am the banks that channel my water through the land to the bigger river.

I am Stream

t'əmii

- *How is this ecosystem different from other ecosystems?*

- *Where do animals find water?*
- *Where do animals find food?*
- *Where do animals find shelter?*
- *Where do animals find space?*



tstɬ'iis (miluk Coos)

I am Lake

I am a low-lying area that fills with water faster that it can escape.

I am the freshwater that gathers from the rain, streams, rivers, and springs.

I am the land that surrounds my water.

I provide food, water, and shelter for many fish, birds, mammals, amphibians, reptiles, and insects.

I am a place to play, forage, and rest.

I am Lake

tstɬ'iis

- *How is this ecosystem different from other ecosystems?*

- *Where do animals find water?*
- *Where do animals find food?*
- *Where do animals find shelter?*
- *Where do animals find space?*



dimsit (miluk Coos)

Picture is a placeholder- need alternate picture.

I am Meadow

I am the soil of the earth.

I am the plants that live in the soil.

I am home for camas, bunchgrasses, bracken fern, yarrow and many more plants.

I provide water, shelter, space, and food to many animals like butterflies, sparrows, hawks, and the deer mouse.

I am Meadow

dimsit

- *How is this ecosystem different from other ecosystems?*

- *Where do animals find water?*
- *Where do animals find food?*
- *Where do animals find shelter?*
- *Where do animals find space?*

Ending card

