

The Greenway Education Program is supported in part by:



**Moutains to Sound Greenway Trust**  
206.382.5565  
education@mtsgreenway.org

# Next Generation Stewards

Science Journal



This journal belongs to:

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My teacher's name is:

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My school is:

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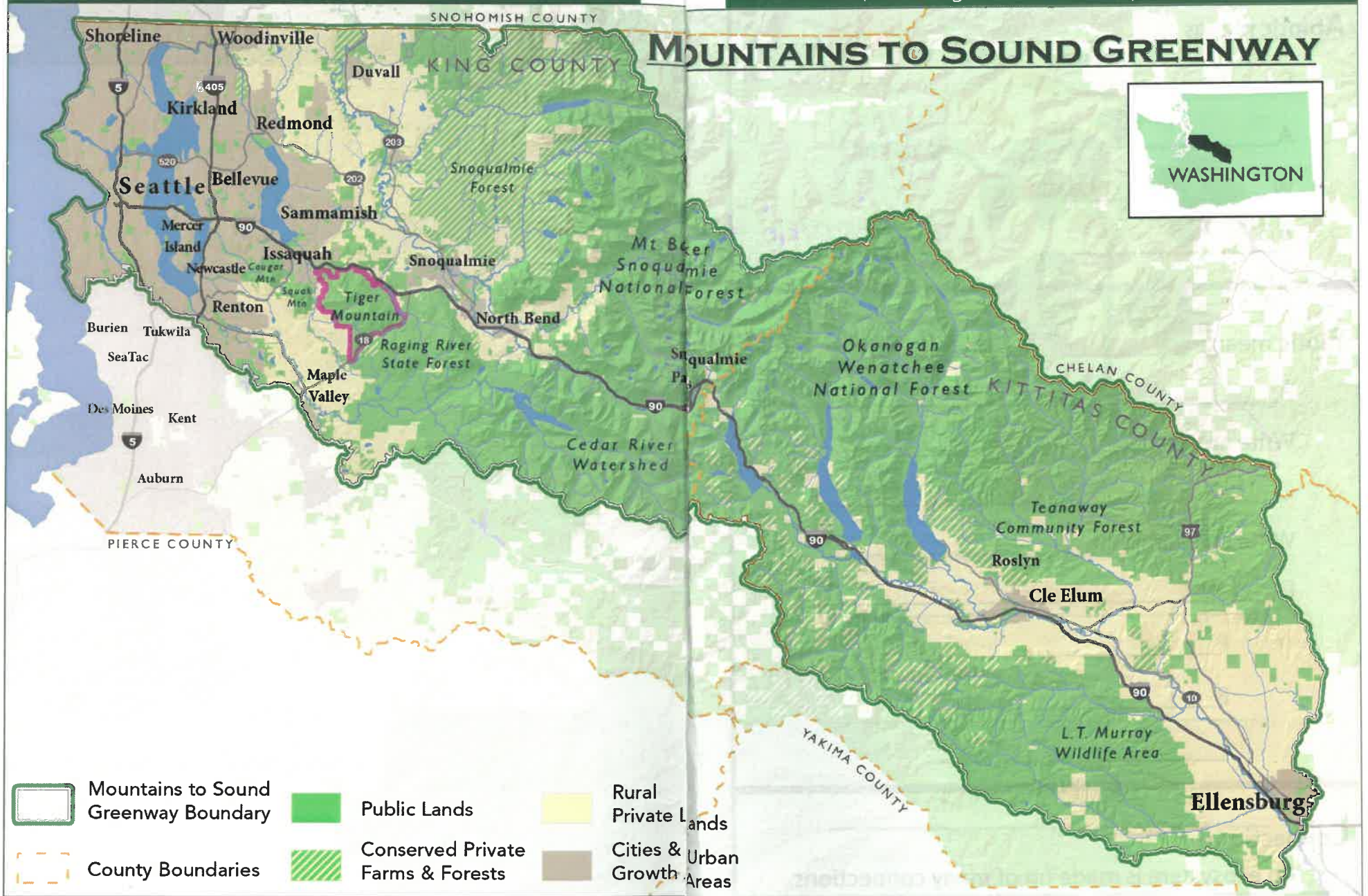
# Picture This!

Date: \_\_\_\_\_

Draw a healthy Pacific Northwest forest ecosystem. Label the parts of your drawing and draw arrows to show energy flow. **Use both pages.**

# Welcome to the Greenway!

1. Find your school and Tiger Mountain on the map.
2. How does the type of land change as you move from west to east (left to right)? (Use the key).





# Nature's ABCs

**Abiotic** means \_\_\_\_\_

L \_\_\_\_\_

A \_\_\_\_\_

W \_\_\_\_\_

S \_\_\_\_\_

**Biotic** means \_\_\_\_\_

P \_\_\_\_\_

Write an example: \_\_\_\_\_

C \_\_\_\_\_

Write an example: \_\_\_\_\_

D \_\_\_\_\_

F \_\_\_\_\_

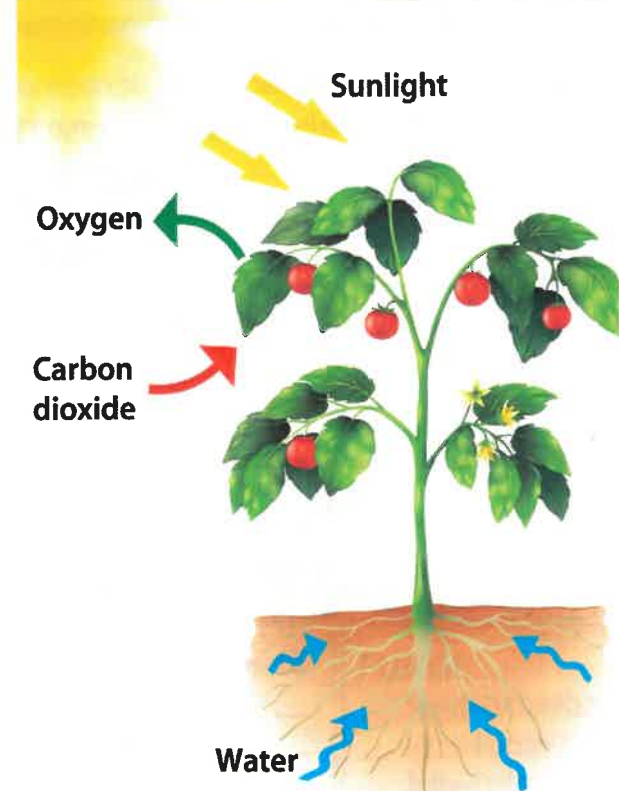
B \_\_\_\_\_

I \_\_\_\_\_

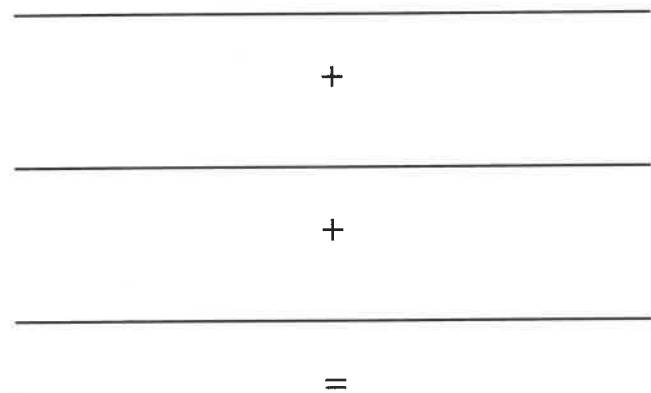
## Connections!

An ecosystem is made up of many connections.

# Photosynthesis (how plants make their energy)



<https://photosynthesiseducation.com/photosynthesis-for-kids/>



**PLANT ENERGY**

# Welcome to the Tiger Mountain forest ecosystem!

This 14,000-acre forest is home to a wide variety of plants and animals. Please keep this in mind while visiting, and practice 'Leave No Trace' principles by packing out your trash, leaving what you find where you find it, respecting wildlife, and being considerate of other visitors.

Use these pages to record your abiotic and biotic observations.  
(Find something not on the list? Record it on page 11!)



LIGHT



AIR

<p>How would you describe the cloud cover?</p> <p> <input type="checkbox"/> cloudy               <input type="checkbox"/> sunny               <input type="checkbox"/> partly         </p>	<p>What is the temperature?</p> <p>_____ °C / _____ °F</p> <p>cold / cool / warm / hot</p>
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PRODUCERS

<p><b>TREES:</b></p> <p> <input type="checkbox"/> Western Redcedar  <input type="checkbox"/> Douglas-Fir  <input type="checkbox"/> Western Hemlock  <input type="checkbox"/> Bigleaf Maple  <input type="checkbox"/> Vine Maple  <input type="checkbox"/> Red Alder  <input type="checkbox"/> Cottonwood         </p> <p><b>FERNS:</b></p> <p> <input type="checkbox"/> Sword Fern  <input type="checkbox"/> Licorice Fern  <input type="checkbox"/> Bracken Fern         </p> <p><b>MOSESSES &amp; LICHENS:</b></p> <p> <input type="checkbox"/> Moss  <input type="checkbox"/> Lichen         </p>	<p><b>SHRUBS:</b></p> <p> <input type="checkbox"/> Osoberry  <input type="checkbox"/> Horsetail  <input type="checkbox"/> Salal  <input type="checkbox"/> Oregon Grape  <input type="checkbox"/> Devil's Club  <input type="checkbox"/> Stinging Nettle  <input type="checkbox"/> Bleeding Heart  <input type="checkbox"/> Red Huckleberry  <input type="checkbox"/> Salmonberry         </p> <p><b>INVASIVE PLANTS:</b></p> <p> <input type="checkbox"/> English Ivy  <input type="checkbox"/> English Holly  <input type="checkbox"/> Stinky Bob  <input type="checkbox"/> Scotch Broom  <input type="checkbox"/> Creeping Buttercup  <input type="checkbox"/> Himalayan Blackberry         </p>
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Date: \_\_\_\_\_ Time: \_\_\_\_\_ Season: \_\_\_\_\_



WATER



SOIL

<p> <input type="checkbox"/> Rain  <input type="checkbox"/> Snow  <input type="checkbox"/> Mist         </p>	<p> <input type="checkbox"/> Stream  <input type="checkbox"/> Lake  <input type="checkbox"/> Swamp         </p>	<p> <input type="checkbox"/> Clay  <input type="checkbox"/> Loam  <input type="checkbox"/> Sand         </p>	<p> <input type="checkbox"/> Mud  <input type="checkbox"/> Gravel  <input type="checkbox"/> Big Rocks         </p>
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CONSUMERS



DECOMPOSERS

<p><b>MAMMALS:</b></p> <p> <input type="checkbox"/> Douglas' Squirrel  <input type="checkbox"/> Chipmunk  <input type="checkbox"/> Black-Tailed Deer  <input type="checkbox"/> Mouse  <input type="checkbox"/> Black Bear         </p> <p><b>BIRDS:</b></p> <p> <input type="checkbox"/> Crow  <input type="checkbox"/> Raven  <input type="checkbox"/> Woodpecker  <input type="checkbox"/> American Robin  <input type="checkbox"/> Hummingbird  <input type="checkbox"/> Mallard  <input type="checkbox"/> Pacific Wren  <input type="checkbox"/> Osprey  <input type="checkbox"/> Bald Eagle  <input type="checkbox"/> Red-Tailed Hawk         </p>	<p><b>FUNGI:</b></p> <p> <input type="checkbox"/> Shelf-Type Fungi  <input type="checkbox"/> Mushroom-Type Fungi  <input type="checkbox"/> Jelly-Type Fungi         </p> <p><b>INVERTEBRATES:</b></p> <p> <input type="checkbox"/> Banana Slug  <input type="checkbox"/> Black Slug (invasive!)  <input type="checkbox"/> Brown Slug (invasive!)  <input type="checkbox"/> Snail  <input type="checkbox"/> Earthworm  <input type="checkbox"/> Yellow-Spotted Millipede  <input type="checkbox"/> Fly  <input type="checkbox"/> Ant  <input type="checkbox"/> Beetle  <input type="checkbox"/> Spider         </p>
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# Notes & Observations

# Reflect on the Field Trip

1. What did you most enjoy on the field trip to the Tiger Mountain forest ecosystem?

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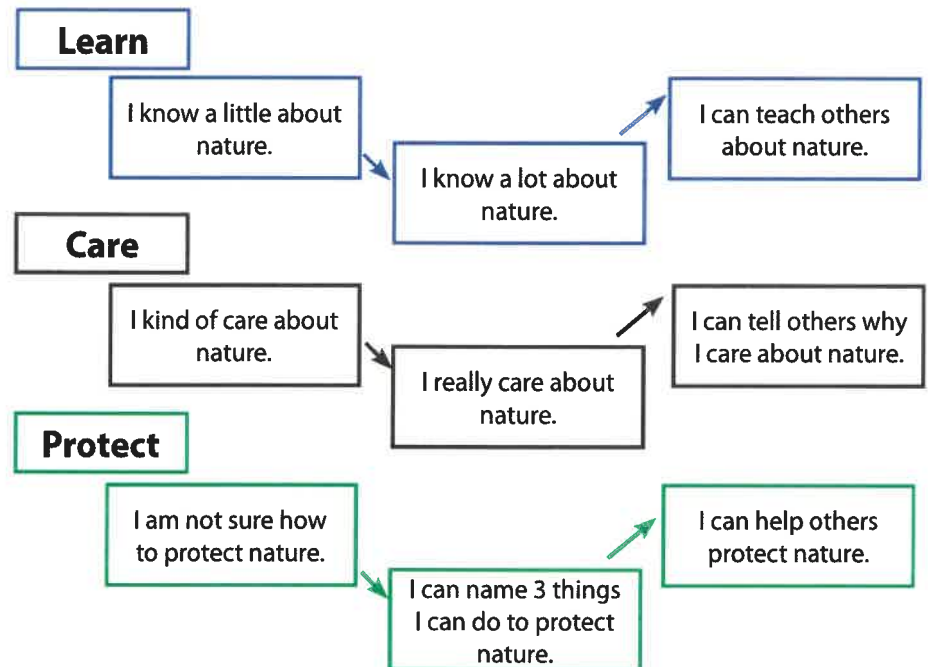
2. What questions do you still have about forest ecosystems?

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**Mark the box that best describes you.**



# Picture This... Again!

Date: \_\_\_\_\_

Draw a healthy Pacific Northwest forest ecosystem. Label the parts of your drawing and draw arrows to show energy flow. **Use both pages.**

# How to Be a Steward

Date: \_\_\_\_\_

1. How can you learn more about the nature around you?

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2. How can you help others explore nature?

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3. What are some actions you can take to help protect nature?

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Discover more Greenway hikes and events at  
[mtsgreenway.org/explore-the-greenway](https://mtsgreenway.org/explore-the-greenway)

Volunteer in the Greenway, visit  
[mtsgreenway.org/volunteer](https://mtsgreenway.org/volunteer)

# Become a Steward of Nature

I, \_\_\_\_\_ on this day of \_\_\_\_\_ am proud to become a Steward of the Mountains to Sound Greenway. I hereby promise to continue to learn about nature and enjoy its many wonders; to share what I know and why I care with my friends and family; and to protect nature in my city and in the forest.

\_\_\_\_\_ signature

