

The Greenway Education Program is supported in part by:



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Mountains to Sound Greenway Trust
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Next Generation Stewards

science journal



This journal belongs to:

My teacher's name is:

My school is:

Picture This!

Date: _____

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

Show Us What You Know

1. What 3 things do producers need to make their energy?

1) _____

2) _____

3) _____

2. What is a consumer?

3. An example of a consumer is _____

4. Circle the 5 decomposers below:

Worm Fungus Cow Mushroom

Tree Vulture Bacteria Slug

5. What are the four abiotic (non-living) parts of an ecosystem?

L _____

W _____

A _____

S _____

6. Give an example of a native plant:

This is not a test! Do your best.

7. Draw 4 arrows to show how energy flows through this system:



Sun



American Robin



Salmonberry



Banana Slug

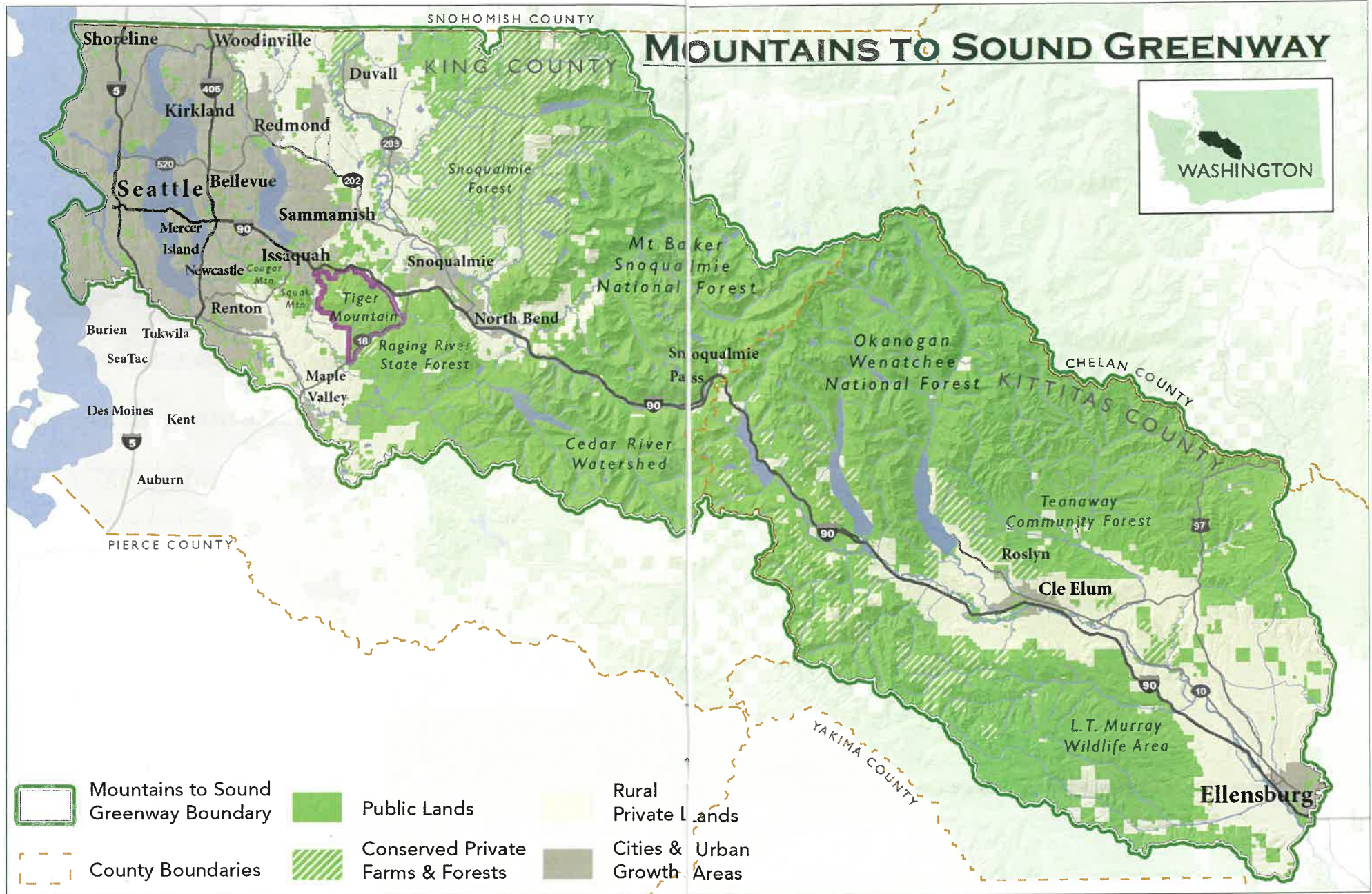
8. What does it mean to be a steward of nature?

9. Why are forests important?

10. What are some things you will do to help protect the natural world?

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

Date: _____

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)

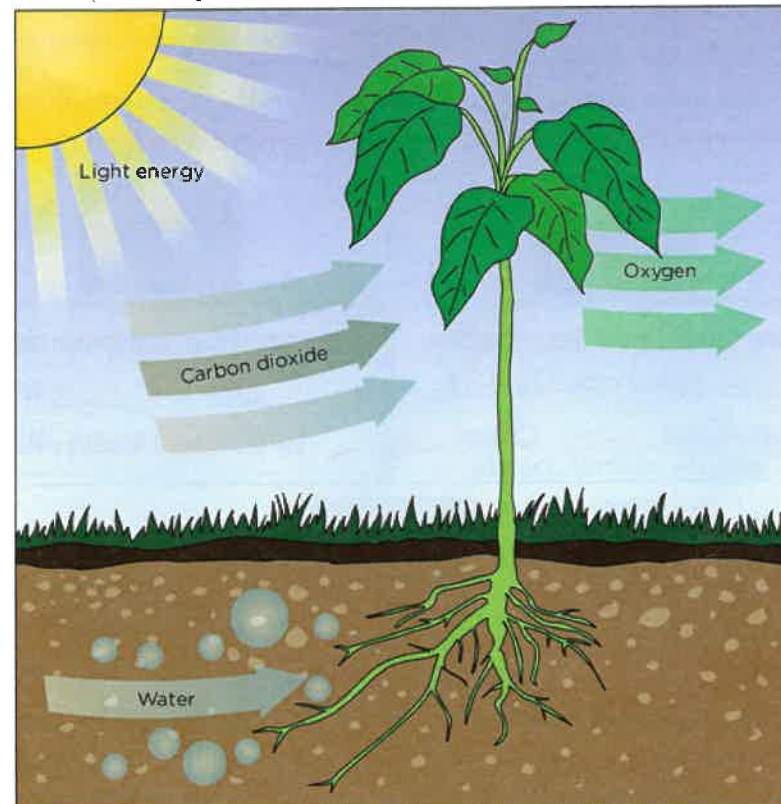
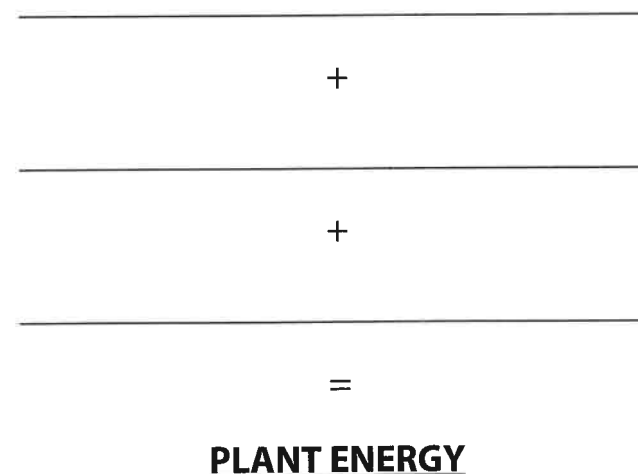


Image source: <http://www.thunderboltkids.co.za/Grade6/01-life-and-living/chapter1.html>



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!)



How would you describe the cloud cover?



cloudy sunny partly

What is the temperature?

_____ °C / _____ °F

cold / cool / warm / hot

Date: _____ Time: _____ Season: _____



- Rain
- Snow
- Mist
- Stream
- Lake
- Swamp

- Clay
- Loam
- Sand
- Mud
- Gravel
- Big Rocks



PRODUCERS

TREES:

- Western Redcedar
- Douglas-Fir
- Western Hemlock
- Bigleaf Maple
- Vine Maple
- Red Alder
- Cottonwood

FERNS:

- Sword Fern
- Licorice Fern
- Bracken Fern

MOSESSES & LICHENS:

- Moss
- Lichen

SHRUBS:

- Osoberry
- Horsetail
- Salal
- Oregon Grape
- Devil's Club
- Stinging Nettle
- Bleeding Heart
- Red Huckleberry
- Salmonberry

INVASIVE PLANTS:

- English Ivy
- English Holly
- Stinky Bob
- Scotch Broom
- Creeping Buttercup
- Himalayan Blackberry



CONSUMERS

MAMMALS:

- Douglas' Squirrel
- Chipmunk
- Black-Tailed Deer
- Mouse
- Black Bear

BIRDS:

- Crow
- Raven
- Woodpecker
- American Robin
- Hummingbird
- Mallard
- Pacific Wren
- Osprey
- Bald Eagle
- Red-Tailed Hawk



DECOMPOSERS

FUNGI:

- Shelf-Type Fungi
- Mushroom-Type Fungi
- Jelly-Type Fungi

INVERTEBRATES:

- Banana Slug
- Black Slug (invasive!)
- Brown Slug (invasive!)
- Snail
- Earthworm
- Yellow-Spotted Millipede
- Fly
- Ant
- Beetle
- Spider

Notes & Observations

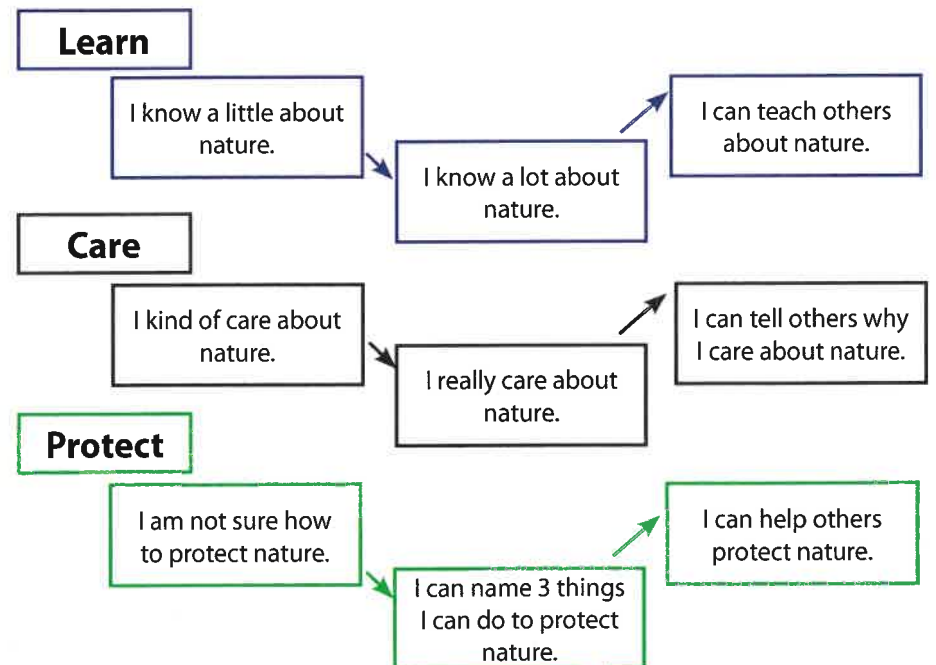
Reflect on the Field Trip

Date: _____

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

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

Mark the box that best describes you.



Show Us What You Know...Again

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9. Why are forests important?

10. What are some things you will do to help protect the natural world?

Picture This... Again!

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How to Be a Steward

Date: _____

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

2. How can you help others explore nature?

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

Discover more Greenway hikes and events at
mtsgreenway.org/explore-the-greenway

Volunteer in the Greenway, visit
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

