

Name \_\_\_\_\_  
Period \_\_\_\_\_

## Ecology Webquest

### **#1 Populations** [http://www.geography4kids.com/files/land\\_population.html](http://www.geography4kids.com/files/land_population.html)

- What is population?
- Two things that increase a population
- Two things that decrease a population
- Humans and dogs live together, are they part of the same population? *Why or why not?*

### **#2 Limiting Factors** [http://www.geography4kids.com/files/land\\_population.html](http://www.geography4kids.com/files/land_population.html)

Explain each of the 3 limiting factors listed on this site:

1. \_\_\_\_\_ -

2. \_\_\_\_\_ -

3. \_\_\_\_\_ -

### **#3 Ecosystems** <http://forest.mtu.edu/kidscorner/ecosystems/definition.html>

- What is an ecosystem?
- What do ecosystems include?
- What happens if one part of an ecosystem is damaged or destroyed?

### **#4: Food Chains** <http://www.sheppardsoftware.com/content/animals/kidscorner/foodchain/foodchain.htm>

- What do all living things need? Why?
- Where do animals get it? Plants?

[Click to learn about bigger food chains!](#)

- What do the links (arrows) in a food chain represent?
- Explain how the last food chain represents a full circle of life.

Click on the tabs on the right and fill in the blanks (*herbivore, omnivore, decomposer, etc*)

- A person is called a \_\_\_\_\_ because they eat meat & vegetables.
- \_\_\_\_\_ are animals that only eat meat.
- \_\_\_\_\_ are animals that only eat plants.
- \_\_\_\_\_ break down dead matter.

Click on "Food Chain Game" in upper left hand corner

Play the game, then diagram (draw and label) the last food chain:

**#5 Food Webs** [http://www.harcourtschool.com/activity/food/food\\_menu.html](http://www.harcourtschool.com/activity/food/food_menu.html)

Choose a food Web

- Name a consumer in your food web \_\_\_\_\_
- Name a producer in your food web \_\_\_\_\_
- Name a decomposer (if there is one) in your food web \_\_\_\_\_

**#6 Energy in an Ecosystem**

[http://www.harcourtschool.com/activity/science\\_up\\_close/314/deploy/interface.html](http://www.harcourtschool.com/activity/science_up_close/314/deploy/interface.html)

- Write three to five sentences describing what you learned:

- Why are there less organisms as you move up the energy pyramid?

**#7 10% Rule and Energy Pyramids** <http://www.shmoop.com/ecology/ecosystem-energy-flow.html>

- Nearly all of the \_\_\_\_\_ that drives ecosystems ultimately comes from \_\_\_\_\_. \_\_\_\_\_, which is an \_\_\_\_\_ factor, by the way, enters the ecosystem through the process of **photosynthesis**\_\_\_\_\_.
- Why are plants called producers?
- What are other producers besides plants?
- How much energy to consumers obtain when they eat? What happened to the rest?

**#8 Carbon Cycle** [http://www.windows2universe.org/earth/Water/co2\\_cycle.html](http://www.windows2universe.org/earth/Water/co2_cycle.html)

- Name 2 places on the earth we find carbon
- Plants pull carbon (in the form of carbon dioxide) from the atmosphere to make food, through a process called \_\_\_\_\_.
- When plants and animals die and \_\_\_\_\_, carbon goes back into the ground.
- Some carbon is buried deep in the ground and forms \_\_\_\_\_.
- When humans burn fossil fuels, \_\_\_\_\_ is released back into the atmosphere.
- When humans and animals exhale, they release carbon back into the air by a process called \_\_\_\_\_.

**#9 Nitrogen Cycle** [http://www.windows2universe.org/earth/Life/nitrogen\\_cycle.html](http://www.windows2universe.org/earth/Life/nitrogen_cycle.html)

- What are 2 ways nitrogen becomes useable to plants, humans and animals?
- How do herbivores obtain the nitrogen they need?
- How is nitrogen returned to the atmosphere?
- What are two ways humans impact the nitrogen cycle:

**#10 Water Cycle** [http://www.windows2universe.org/earth/Water/water\\_cycle.html](http://www.windows2universe.org/earth/Water/water_cycle.html)

- Diagram the water cycle:

- **#11 Biomes Around the World** <http://www.ucmp.berkeley.edu/exhibits/biomes/index.php>
- How are biomes determined?
- What are the 6 Biomes of the World?
- What are the Freshwater Ecosystems?
- What are the Marine Ecosystems?