

Ecology Web Quest

Part I: Ecosystems

You will go to the following websites and answer the questions that go along with that website.

<http://www.vtaide.com/png/foodchains.htm>

1. In the following chart you will take the words and provide an example and description of each word.

| Word | Example | Description |
|--------------------|---------|-------------|
| Producer | | |
| Consumer | | |
| Carnivore | | |
| Herbivore | | |
| Secondary Consumer | | |
| Tertiary Consumer | | |
| Decomposers | | |

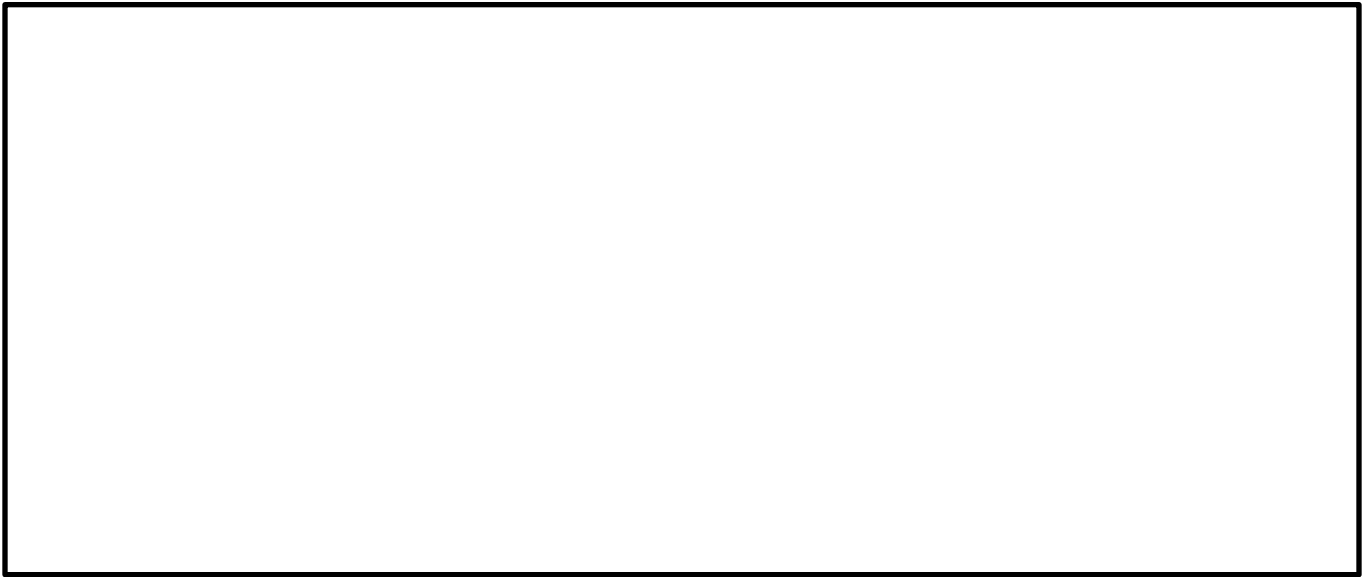
Part II. FOOD WEBS

- (1) Go to http://www.harcourtschool.com/activity/food/food_menu.html to complete all three food webs. Diagram each of the food webs below.

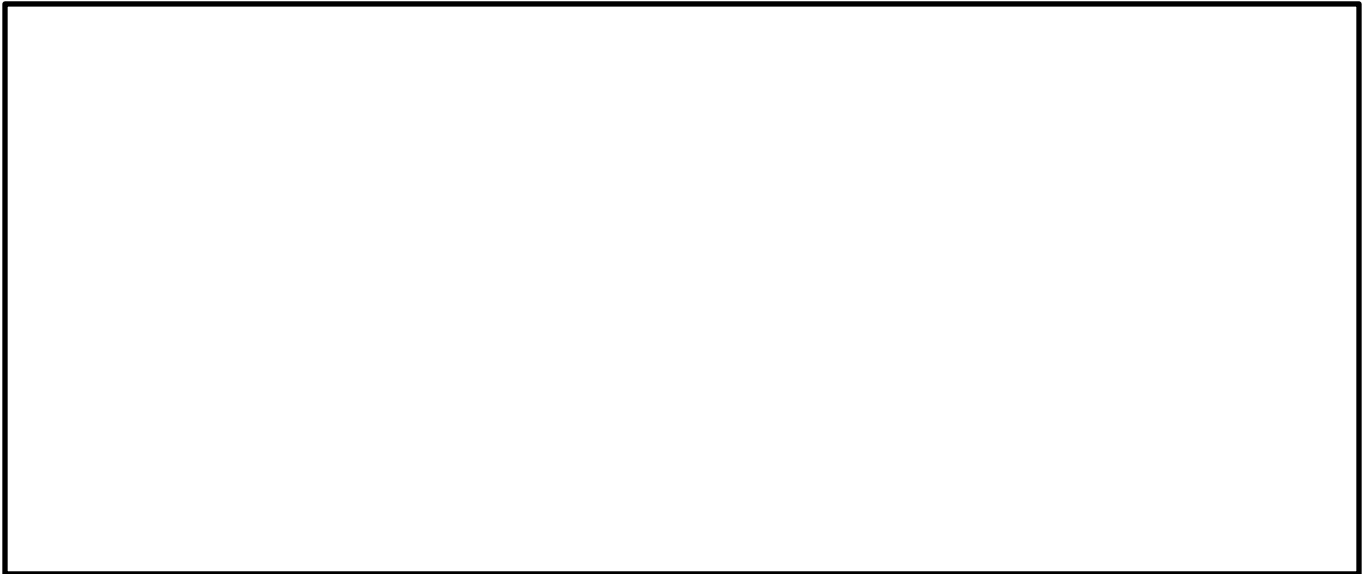
Meadow Food Web



Arctic Food Web



Pond Food Web



Consumers – are living things that need producers to be their food (animals and people)

Producers – living things which take the non living matter from the environment (plants)

Decomposers – living things which feed off of dead plants and animals (bacteria, fungi)

(2) Using the information in the table above answer the following questions about your food chain:

| | Consumers | Producers | Decomposers |
|------------------------|------------------|------------------|--------------------|
| Meadow Food Web | | | |
| Arctic Food Web | | | |
| Pond Food Web | | | |

Part III. POPULATION

Go to http://www.geography4kids.com/files/land_population.html and answer the following questions:

1. What is population?

2. Two things that increase a population:
 - a.

 - b.

3. Two things that decrease a population:
 - a.

 - b.

Part IV: Impact of Human Activity on Ecosystems

Choose and read about the many impacts that humans have on ecosystems from the list below:

| Impact of Human Activity on Ecosystems | |
|---|---|
| Deforestation | http://www.rcfa-cfan.org/ |
| Extinction of Species | http://www.endangeredspecie.com/ |
| Pollution | http://tiki.oneworld.net/pollution/pollution_home.html |
| Human Soil Erosion | http://www.livescience.com/63-earth-movers-humans-erosion.html |
| Greenhouse Effect | http://www.bbc.co.uk/climate/evidence/greenhouse_effect_img.shtml |

| | Fact #1 | Fact #2 |
|------------------------------|----------------|----------------|
| Deforestation | | |
| Extinction of Species | | |
| Pollution | | |
| Human Soil Erosion | | |
| Greenhouse Effect | | |

Part VI: Biomes Around the World

(1) Go to <http://mbgnet.mobot.org/> and answer the following questions.

(2) What are the 6 Biomes of the World?

| | | |
|--|--|--|
| | | |
| | | |

(3) What are the 3 Freshwater Ecosystems and the 3 Marine Ecosystems?

| Freshwater Ecosystems | Marine Ecosystems |
|------------------------------|--------------------------|
| | |
| | |
| | |

(4) Click on one of the six biomes and fill in the following table (continued on next page).

| Biome | Location | Plants | Animals |
|--------------|-----------------|---------------|----------------|
| | | | |
| | | | |

| Biome | Location | Plants | Animals |
|-------|----------|--------|---------|
| | | | |
| | | | |
| | | | |
| | | | |

(5) Click on one of the six biomes and give 3 interesting facts for each.

| Biome | Fact #1 | Fact #2 | Fact #3 |
|-------|---------|---------|---------|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

Most of the earth is covered by the _____ biome.

The most diverse biomass is found in which two biomes _____?

Which biome supports the least amount of life _____?

Try this game and save the trees <http://www.seussville.com/games/lorax/>