

Building a Food Web Assignment

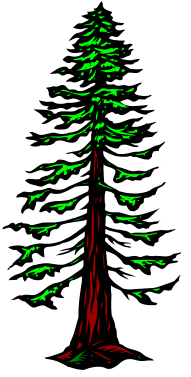
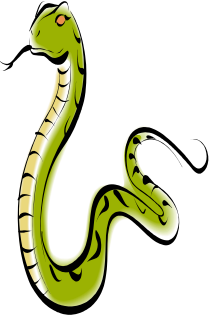

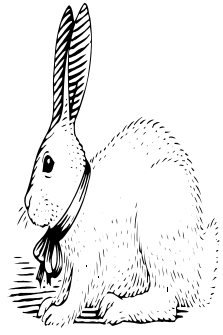

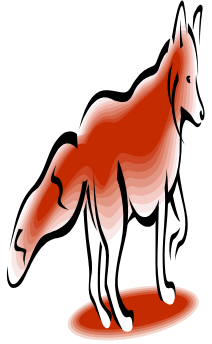



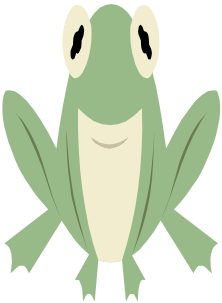


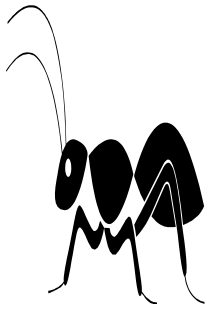
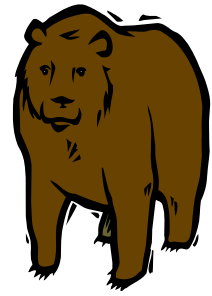

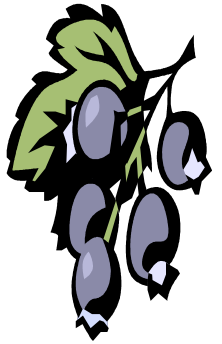



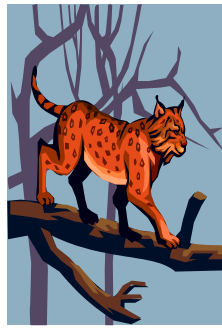
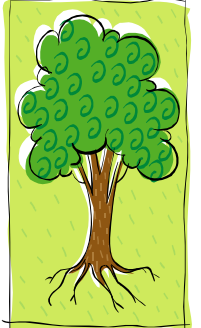
Procedure

1. Cut out the producer and consumer blocks from the attached page.
2. The sun is the source of energy in all food webs. In the middle of the background paper you have been given, draw a sun in pencil (in case you want to change the sun's position later).
3. Place your producer blocks next to the sun. Do not paste anything until all the organisms have been placed.
4. Place two or three animals around the producers. If one animal could eat another, join them with an arrow (use a pencil at this point). Remember that arrows represent the flow of energy from one organism to another and consequently must be drawn in the right direction.
5. Add the rest of the organisms and connect using arrows.
6. When your food web is complete and neatly arranged, paste the pictures to the paper and draw arrows with pen or marker to complete the web.


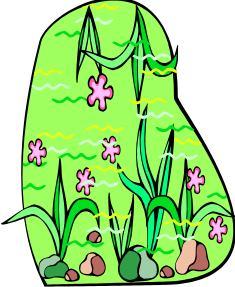

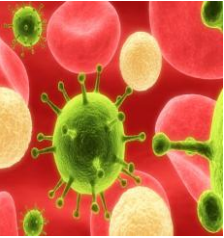
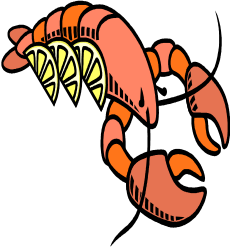
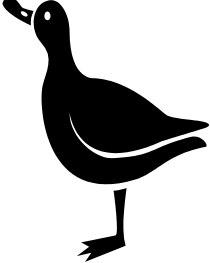

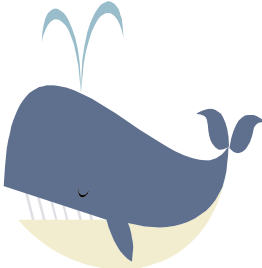
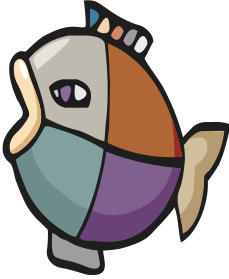
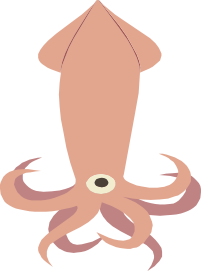


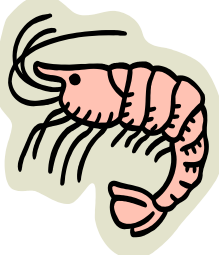

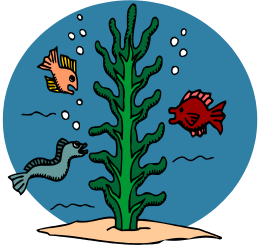
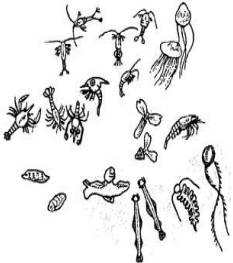
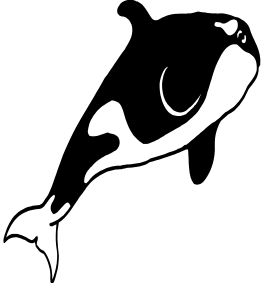



Discussion: Answer the Following questions in complete sentences on LINED paper.

1. Under EACH organism, list its niche. (P = producer, H = herbivore, O = omnivore, C = carnivore)
2. How many food chains did you produce in the forest food web? How many in the ocean food web?
3. Name TWO abiotic factors that would affect your food webs.
4. Diagram one food chain from each food web beginning with the sun and with arrows in the right direction.
5. Describe where the decomposers would fit into this food web.
6. Which organisms in the food web were the most numerous (producers, primary consumers, secondary consumers)? Why?
7. Which organisms were the least numerous? Why?
8. What would happen to your food web community if:
 - a. all the producers died? Explain.
 - b. all the herbivores died? Explain.
 - c. the decomposers died? Explain.
9. Considering your answers to question 7, which organisms are the most important in your food web? Explain your answer.

Forest Food Web

<p>TREE</p> 	<p>SNAKE insects and small animals</p> 	<p>SPIDER Insects</p> 	<p>RABBIT plants and roots</p> 	<p>GRASSHOPPER plants</p> 	<p>FOX other small animals</p> 	<p>MOUSE plants, seeds</p> 
<p>BEE Flowers (pollen)</p> 	<p>WOLF other animals</p> 	<p>FROG Insects</p> 	<p>CHIPMUNK nuts and seeds</p> 	<p>DEER berries, grass, plants</p> 	<p>ANT leaves</p> 	<p>BEAR berries, smaller animals</p> 
<p>BIRD insects</p> 	<p>BERRIES</p> 	<p>GRASS</p> 	<p>FLOWERS</p> 	<p>OWL mice and other small animals</p> 	<p>BOBCAT other animals</p> 	<p>TREE</p> 

Aquatic Food Web

<p>CLAM plants</p> 	<p>SEAWEED Sun</p> 	<p>STARFISH Bacteria/protozoa</p> 	<p>BACTERIA & PROTOZOA Producer</p> 	<p>LOBSTER Algae/protozoa</p> 	<p>ALBATROSS Krill & fish & squid</p> 	<p>FUR SEAL Octopus, krill</p> 
<p>BLUE WHALE Krill</p> 	<p>FISH Zooplankton,</p> 	<p>SQUID Zooplankton, Krill, Fish</p> 	<p>SEA TURTLES seaweed</p> 	<p>FISH Krill, zooplankton</p> 	<p>SHRIMP zooplankton</p> 	<p>ELEPLANT SEAL Fish, octopus</p> 
<p>SEAWEED Sun</p> 	<p>ZOOPLANKTON Sun</p> 	<p>KILLER WHALE Fish, Seals</p> 	<p>KRILL seaweed</p> 	<p>OCTAPUS Clams, starfish, crab</p> 	<p>CRAB Bacteria and protozoa</p> 	<p>PENGUINS Fish, Squid</p> 