










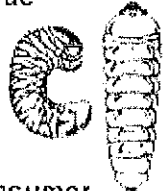




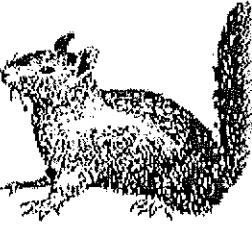





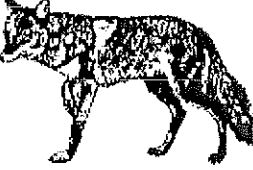




Food Webs Activity

1. Use scissors to cut the pictures apart.
 2. Sort the pictures into groups according to energy sources; producers, herbivores (first order consumers), 1st level carnivores (second order consumers), 2nd level carnivore (third order consumers), scavengers and decomposers.
 3. With the colored pencils mark each group a different color. Mark the energy sources with yellow, the producers with green, the herbivores with blue, the 1st order carnivores with orange, the second order carnivores with red, the scavengers with purple and the decomposers with brown.
 4. Construct 2 food chains (4 trophic levels) as they would occur in the chaparral. Paste your pictures onto the poster paper. Use arrows to show that energy is passed from one organism to another. (Arrows go from the animal that is eaten to the animal doing the eating).
 5. Construct a food web as it would occur in the chaparral. Glue your food web to the bottom of the poster. Again use arrows to show that energy is passed from one living organism to another.
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1. Would there be more predators or prey in a particular community? Explain.
2. Why are the 2nd level carnivores more likely to be affected by the insecticide than 1st level carnivores?
3. Explain what may happen to the other organisms if disease were to kill off one of the 2nd level carnivores in your food web. Which organisms would increase in population? Why? Which organisms would decrease in population? Why?
4. Describe how humans might change (or are currently changing) the food web.
5. Why can't food chains go on forever? (8th order, 9th order and 10th order consumers?)

<p>Toyon</p>  <p>Producer</p>	<p>Chamise</p>  <p>Producer</p>	<p>Manzanita</p>  <p>Producer</p>
<p>Bitter Cherry</p>  <p>Producer</p>	<p>Scrub Oak</p>  <p>Producer</p>	<p>Bacteria-Fungi-Molds</p>  <p>Decomposers Break down dead or decaying Materials Recycling Nutrients</p>
<p>Sun</p>  <p>Solar Energy Ultimate source of energy for most of life on Earth</p>		

<p>Grasshopper (Insect)</p>  <p>Consumer Green Vegetation - Leaves</p>	<p>Spiders</p>  <p>Consumer Insects</p>	<p>Beetles (Insects)</p>  <p>Consumer Plant Material - Bark - Leaves</p>
<p>Butterflies (Insects)</p>  <p>Consumer Flower Nectar</p>	<p>Grubs & Insect Larvae</p>  <p>Consumer Leaves and plant Material</p>	

<p>Coast Horned Toad</p>  <p>Consumer Small Insects</p>	<p>Western Fence Lizard</p>  <p>Consumer Insects - Spiders</p>	<p>Ground Squirrel</p>  <p>Consumer Green Vegetation - seeds - bulbs - acorns</p>
<p>Gopher Snake</p>  <p>Consumer Rats - Mice - Rodents - Rabbits Birds - Quail - Lizards</p>	<p>Grey Fox</p>  <p>Consumer Berries of Various Plants Gophers - Mice - Rodents - Rabbits Birds - Quail</p>	<p>Spotted Skunk</p>  <p>Consumer/Scavenger Insects - small rodents - Birds Carrion - eggs - some plant material</p>
<p>Western Rattlesnake</p>  <p>Consumer Rodents - Squirrels - Rabbits Birds - Lizards - Reptiles</p>	<p>Scrub (California) Jay</p>  <p>Consumer Insects - Eggs - Small Birds Acorns</p>	<p>Mountain Coyote</p>  <p>Consumer/Scavenger Squirrels - Mice - Rabbits - Grasshoppers Birds - Berries of various plants</p>
<p>California Quail</p>  <p>Consumer Seeds - Leaves - Berries Insects</p>	<p>Brush Rabbit</p>  <p>Consumer Plant Material Grasses - Herbs - Shrubs - Leaves</p>	<p>Red-Tailed Hawk</p>  <p>Consumer Rodents - Squirrels - Rabbits - Insects</p>
<p>Rodent (Pocket Mouse)</p>  <p>Consumer Seeds of various plants</p>		

