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Energy in the Ecosystem WebQuest

1. Go to <http://www.zephyrus.co.uk/foodpuzzlechain.html> and complete the food chain “quiz.” Make sure to answer these questions as you go. [In other words, all of these questions can be answered by the information found as you work through this quiz.]

a.Green plants make their own food, so they are called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

      b. What is a predator?

       c. What is an example of a producer that fish could eat?

      d. What is the general term for organisms that live in soil and fallen leaves on the forest floor?   What is one example of them?

 2. Go to the following website to answer this question: What is the [difference between a food chain and a food web](https://sciencebob.com/what-is-the-difference-between-food-chain-and-a-food-web/)?

 3. Go to <http://www.geography4kids.com/files/land_foodchain.html> and answer these questions.

a. What is a producer?

b. Where does all of the energy that plants need to make the food we need come from?

c. What is the process that the plants use sunlight as energy to make chemical energy?

  d. There are different levels of consumers.  What are they and describe them and give an example of each.

 e. What is a decomposer?  Give an example.

 Click the same website you have been using forward two pages.

 a.  Read about a closed system and describe what it has to do with energy.

 4. Go to <http://www.crickweb.co.uk/assets/resources/flash.php?&file=foodchains> to answer these questions. This site will lead to a “title” page. Click on the green box that looks like a food chain.  After reading through the introductory page that follows, click on the “next” button in the upper left-hand corner.

a.      Select “River” Habitat: Write out the food chain.

b. Select “Woodland” Habitat: Write down the food chain.

c. Select “Seashore” Habitat: Write down the food chain.

5. Go to <http://marinediscovery.arizona.edu/lessonsF00/sea_cucumbers/2.html>to answer these questions.

 a.      Why is phytoplankton so important to the marine (water) ecosystem?

b. From the information provided, what do you think is the difference between phytoplankton and zoo-plankton?

6. Go to <http://www.vtaide.com/png/foodchains.htm> to answer these questions.

 a.      In any ecosystem, there are fewer carnivores than herbivores. Why? [Your answer needs to specifically include a description of how energy is transferred.]

b. Why would it be extremely rare to find a food chain with nine links in it?

7.  Go to <http://www.seafriends.org.nz/enviro/soil/depend.htm> and browse the whole website. There are many controversial tidbits there, so take your time to understand what they are trying to say. After reading each section, *write a question* that you still have even after reading the site.

a.      History:

1. Concern:

 c. Food Requirements:

d. Meat or Vegetarian:

e. Why need soil:

 f. Sustainability:

 g. Overall, what do you think about the message(s) found in this website?

 Go onto the following sites and tell about what you experience.

a. [producer, consumer, decomposer?](http://www.sheppardsoftware.com/web_games_trivia_animal.htm)

b.  [Food fight](https://www.brainpop.com/games/foodfight/Ecogame.swf" \t ")

c.  [Build a web](http://www.nature.ca/ukaliq/030act/media/017_fwb_e.swf" \t ")

d.  [Watch out](http://akidsheart.com/animals/sea/foodchain/foodchain.html" \t ")

e.  [many games](https://ethemes.missouri.edu/themes/1825?locale=en-US)