

Name: _____

Date: _____

Period: _____

AP Environmental Science

Food Webs & Trophic Pyramids

Directions:

1. When you have completed your food chain—with five links: producer, primary consumer, secondary consumer, tertiary consumer, and a decomposer or scavenger—arrange the your cards so that there are three vertical food chains aligned next to each other; producers on the bottom and tertiary consumers on top.
2. *Where do you think you should put the scavenger/decomposers? Put them where you think they should go.*
3. **Draw and label the three food chains**, as they are arranged on you table, in the space below (Take a picture in case you run out of class time).
4. **Create a food web.** Each card states the organisms preferred foods and predators. Using this information you can determine what it eats and what eats it. Using this information make as many connections between organisms as you can think of. **Connect organisms with arrows; arrows should be oriented in the direction of energy flow.**
5. What type of habitat (i.e. ecosystem or biome) does your food chain seem to resemble: *fresh water swamp, deciduous forest, tropical rainforest, desert, or marine?* If you are not sure use your textbook, pages 152-165, or Google it. **Give your food web a title that includes the habitat type.**

**Tertiary
consumers**

**Secondary
consumers**

**Primary
consumers**

Producers

Directions: Complete the data table below during your instructor's demonstration (likely at the end of class or during an upcoming class).

Organism	Energy Units Obtained	Energy Units Lost

Analysis Questions

- 1) Where did the original 100 energy units come from?
- 2) What happened to the energy that was not passed on to the next trophic level?
- 3) What is the relationship between the number of organisms in a species and its trophic level?
- 4) Is it likely that another trophic level could exist above the tertiary consumer level?
- 5) What kind of organism or at what trophic level should people eat if they want to be more energy efficient?