

Food Web Quiz (take-home)

NAME

Directions

1. This is a take-home quiz. It is open notes/open resources, and **it is due April 12th.**
2. Create a Food Web drawing using the animals listed below on your own paper (like the one you studied in the Energy Flow assignment - textbook page 48). Place each animal by name in an energy level (triangle trophic level) depending on whether it's a producer, 1st Consumer, 2nd Consumer, or 3rd Consumer. Check the class website for the Energy Flow reading page 48 if you need to refer to it. Draw energy flow lines connecting the organisms together. Extra Credit: Draw pictures of the organisms together with their names in your web!
3. When finished with your Food Web, answer the Analysis Questions which follow.

Food Web Organisms

- **Grass** (producer)
- **Trees** (producer)
- **Bushes** (producer)
- **Deer** (herbivore – eats grass and bushes)
- **Squirrels** (herbivore – eats tree seeds and nuts)
- **Rabbits** (herbivore – eats grass)
- **Mountain Lions** (carnivore – eats deer and sometimes pine martens & rabbits)
- **Hawks** (carnivore – eats rabbits)
- **Pine Marten** (carnivore –eats squirrels)
- **People (hunters)** (omnivore – eats deer)

Analysis Questions

1. List the producers in your food web:
2. Where do the producers get their energy?
3. List the consumers in your food web:
4. Which direction do your arrows go? Why?
5. List the herbivores in your food web:
6. List the carnivores in your food web:

7. What type of organisms are missing in the food web?
8. Pick a producer _____. What would happen if all of this organism died out?
9. Pick a predator _____. What would happen if all of this organism died out?
10. Make a prediction of what would happen if there was a wet spring and lots of extra grass as a result:
11. Which animal(s) did you put at the top of your food web? Why did you put this animal(s) there?
12. Why are food webs shaped like a pyramid?
13. Draw a food chain for Pine Martens (Hint: you need 3 organisms)
14. How might an excess of deer hunting affect mountain lions?