

## Directions for Constructing the Buzzard Gulch Food Web

The animal citizens of Buzzard Gulch have a weekly newsletter. This week's Gazette is full of news about what has been going on, and who's been eating whom. Now most of the characters mentioned in the Gazette are pictured on this page. Your task is to construct a food web given information and clues in the newsletter.

Note: Attempting to eat an animal and not succeeding is still evidence of predation and should be reflected in the food web.

- 1) Cut out all of the animal pictures below.
- 2) As you read the Gazette, look for evidence of predation and place the animal at the correct trophic level on the chart.
- 3) Glue all of the animals down.
- 4) Draw arrows to represent the feeding relationships in your food web. Remember that arrows should show the direction of energy flow.
- 5) Answer the analysis questions.



**Part I: Food Web**

Construct a food web using the information from the story. Draw arrows to show feeding relationships (arrows should show the direction of energy flow).

Tertiary Consumers:

Secondary Consumers:

Primary Consumers:

Producers:

## Part II: Analysis Questions

Use the story, the food web, and your notes to answer the following questions.

1. What is a trophic level?
2. How many trophic levels are represented in this food web?
3. Approximately how much of the energy from food is transferred to the consumer?
4. Assume that each grasshopper provides 150 calories of energy to its consumer. How many calories of energy (from the grasshopper) would eventually be provided to the fox?
5. What do the arrows in your food web represent?
6. What important members of the community are left OUT of this food web?
7. What is another name for the primary consumers?
8. What is another name for the secondary and tertiary consumers?
9. Name 1 organism in the food web that is omnivorous.
10. Which organism in the food web might be considered a scavenger?
11. What is the ultimate source of energy for this food web?
12. What is the source of energy for the deer?  
For the possum?  
For the wolf?
13. Write out a food chain that includes the squirrel.
14. Which trophic level in the food web has the MOST available energy?
15. Which trophic level in the food web has the LEAST available energy?