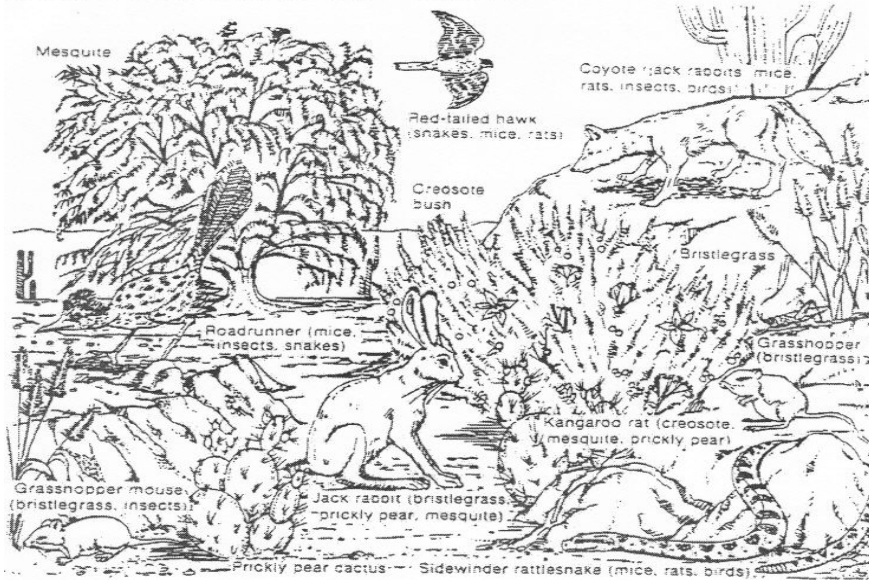


## Food Web Analysis

**Directions:** Analyze the following desert food web for ecological components and impact different scenarios will have on the ecosystem.



### Analysis:

1. Identify 3 producers in this ecosystem.
2. Identify 2 herbivores in the ecosystem.
3. Identify 2 carnivores in the ecosystem.
4. Identify an omnivore in the ecosystem.
5. Diagram 2 food chains with each trophic level represented.
6. Construct a food web for this ecosystem that includes all trophic levels and 12 organisms.
7. What would happen in this community if
  - a. there was no rain for 2 years?
  - b. all the jackrabbits died?
  - c. more rattlesnakes moved into the area?
  - d. the coyote ate all the roadrunners?
8. Generate a food pyramid of numbers for 4 organisms in the desert scene.
9. If there was 100% grass in a food pyramid, how much energy would be available at
  - a. the first consumer level?
  - b. the second consumer level?
  - c. the tertiary consumer level?
10. In a food pyramid, where does the lost energy go?