

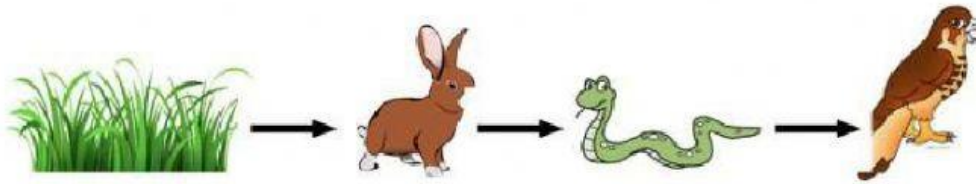
## 6<sup>th</sup> Grade Food Web/Chain and Energy Quiz

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Name: \_\_\_\_\_

### Population Change

1) If a disease strikes the snake population in the food chain shown, what will happen to the populations of hawks?



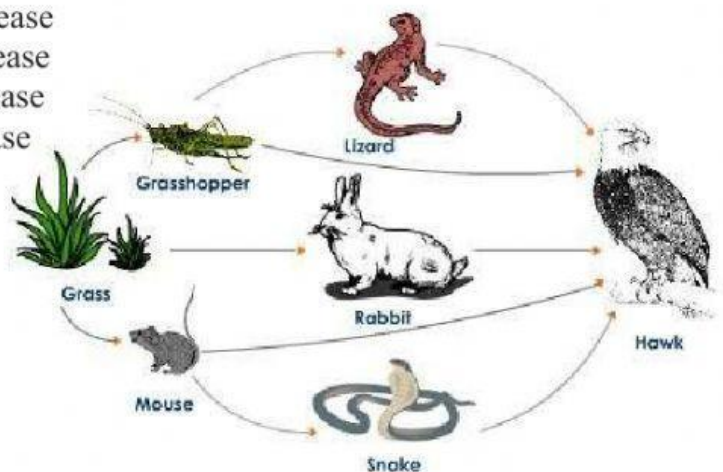
- A. The population of hawks would decrease
- B. The population of hawks would increase
- C. The population of hawks would stay the same.

2) When the population of organisms in an ecosystem is in balance, we consider the ecosystem to be:

- A. The ecosystem is in succession
- B. The ecosystem is in equilibrium
- C. The ecosystem is not balanced
- D. The ecosystem is endangered

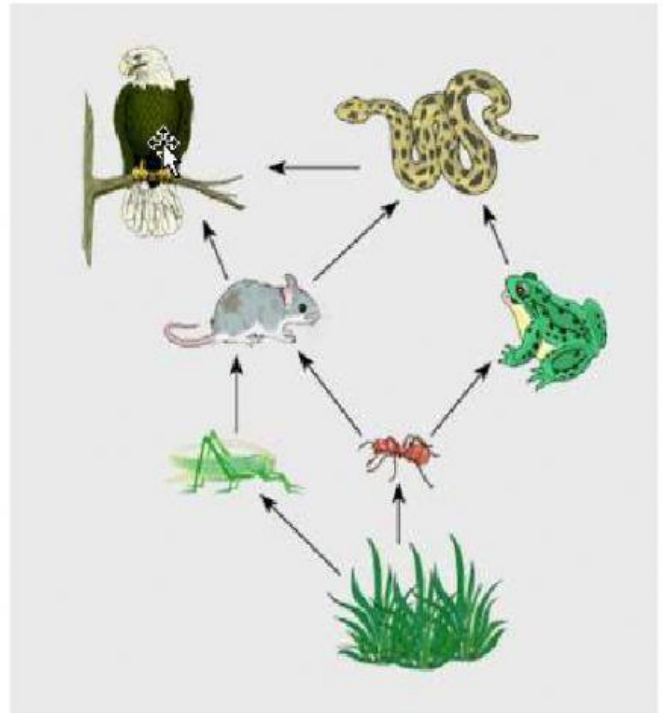
3) In the food web, if the population of grasshoppers increased, what would be a result?

- A. The population of rabbits would decrease
- B. The population of lizards would decrease
- C. The population of snakes would increase
- D. The population of grass would decrease



4) Trapping and hunting has greatly reduced the population of snakes. What is the most likely effect of this change in the ecosystem?

- A. The population of frogs will increase
- B. The population of mice will decrease
- C. The population of ants will increase
- D. The population of frogs will decrease



5) Many organisms have multiple words to describe their role in an ecosystem. Which three terms correctly describes a **primary consumer**?

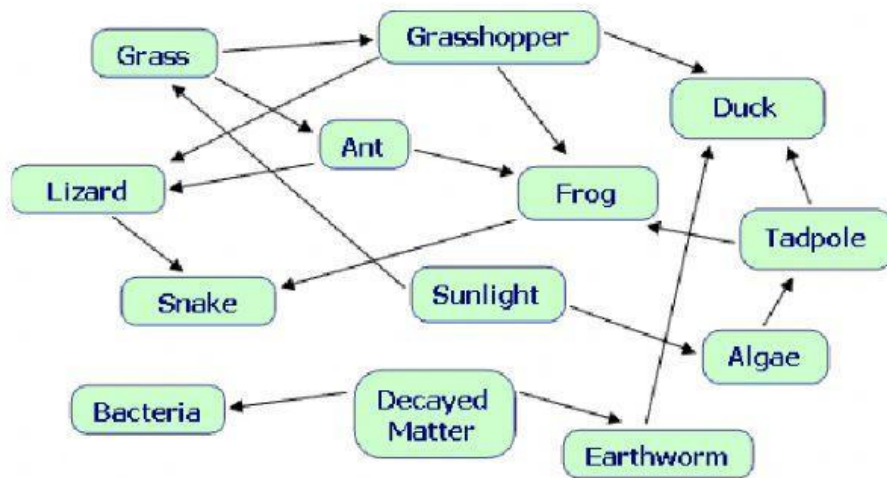
- A. Primary consumers are abiotic, carnivores and predators
- B. Primary consumers are biotic, herbivores and often prey of larger animals
- C. Primary consumers are biotic, carnivores and often prey of larger animals
- D. Primary consumers are abiotic, omnivores and consumers

## Food Webs and Food Chains

6) What is the difference between a food chain and a food web?

- A. A food chain is larger than a food web
- B. A food chain is the combination of all the food webs in an ecosystem
- C. A food web is smaller than a food chain
- D. A food web is the combination of all the food chains in an ecosystem

*Use the food web to answer Questions #7 and #8*



7) Identify the predator of the frog.

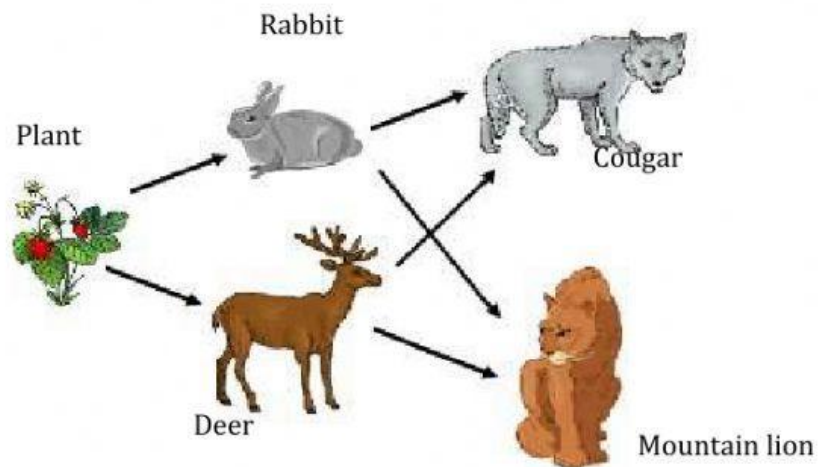
- A. Ant
- B. Tadpole
- C. Lizard
- D. Snake

8) Which organism does the lizard consume (eat)? (Mark all that apply!)

- A. Grasshopper
- B. Ant
- C. Snake
- D. Grass

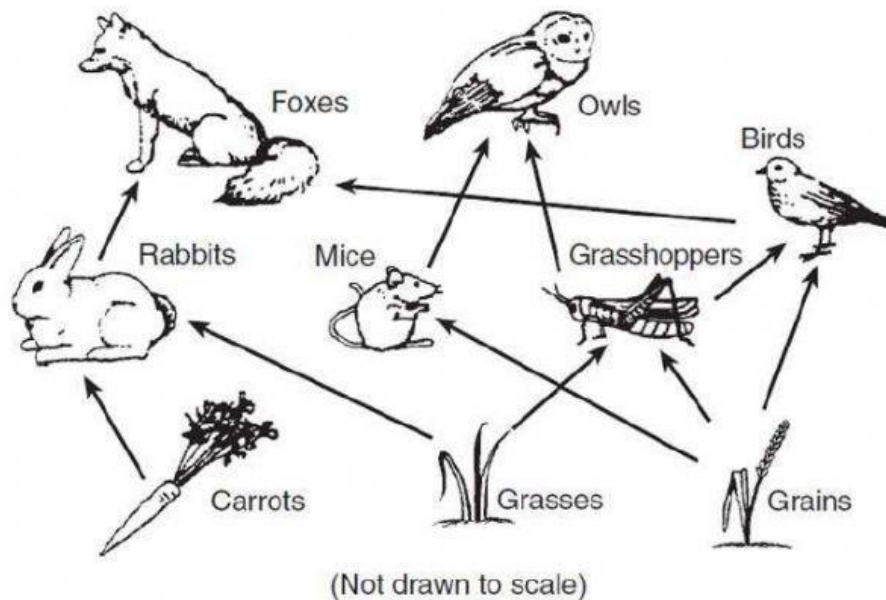
9) Which choice correctly explains the path of energy through the food web?

- A. wolf → plant → deer
- B. plant → rabbit → deer
- C. plant → rabbit → cougar
- D. cougar → rabbit → wolf

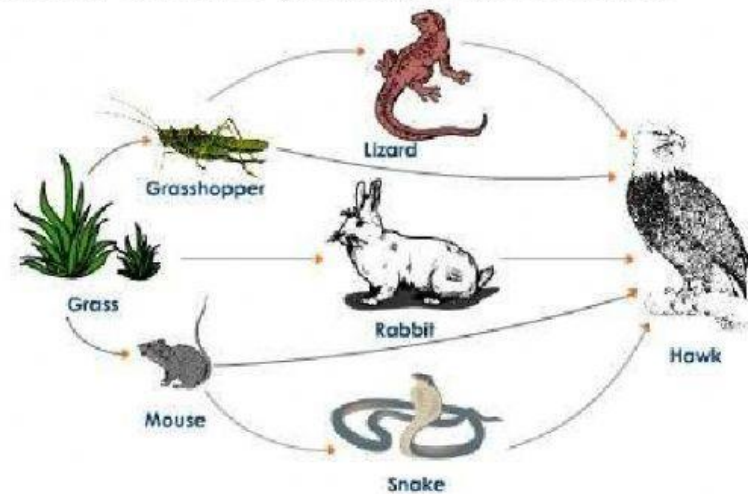


10) Which of the following food chains is correct for the food web below?  
(Trace the flow of energy to find the correct choice!)

- A. Carrots → Rabbits → Owls
- B. Grasses → Grasshoppers → Birds → Foxes
- C. Grains → Grasshoppers → Birds → Owls
- D. Grasses → Grasshoppers → Mice → Owls



Use the diagram below to answer Questions #11, #12 and #13



11) In the food web diagram which **TWO** organisms are secondary consumers?

- A. Rabbit, Snake
- B. Hawk, Grasshopper
- C. Lizard, Snake
- D. Hawk, Lizard

12) In the food web above, the mouse and grasshopper are identified as:

- A. Primary Consumers
- B. Secondary Consumers
- C. Top Consumers
- D. Producers

13) Identify a top consumer from the food web.

- A. Hawk
- B. Mouse
- C. Snake
- D. Lizard

