

# Worksheet | Lower Secondary

## Stage (6-8)

1<sup>st</sup> Semester | 2023-2024

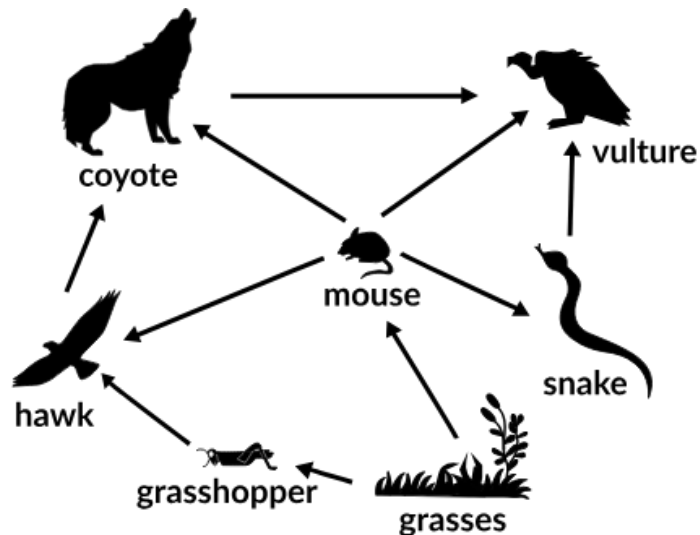
**Subject:** Biology

**Chapter:** Food chains and food webs

### Objectives:

- Understand and explain the concept of food webs, including their components.

Animals in an ecosystem form a food web. In the illustration below, use arrows to map out the energy transfer between organisms. The first one has been added as an example.



1. Name a producer in the food web above.

Grasses

2. Name three consumers in the food web above.

Mouse

Coyote

Hawk

3. What is the difference between food chains and food webs?

A food chain outlines who eats whom. A food web is all of the food chains in an ecosystem.

4. The coyote is a predator to the mouse/hawk.

5. Which animal would have a bigger food supply if the number of grasshopper decreased?

mouse

6. Which organism would have the least biomass in this food web?

vulture

7. snakes are both predators and prey in this food web.

a. True

b. False

8. Decomposers are very important for life on Earth.

Explain the role of decomposers in food webs.

They break down dead organisms into simpler materials, making nutrients available to producers.

9. Which trophic level is the hawk?

Trophic level 3.

10. What would happen to the grasshopper's population if the mice population decreases?

The grasshopper population will increase.

11. What happens to the energy as we move up from one step to another?

Energy decreases as it moves up trophic levels because it is lost at each step.