

Student Exploration: Food Chain

Vocabulary: consumer, ecosystem, energy pyramid, equilibrium, food chain, population, predator, prey, producer

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

The Food Chain Gizmo shows a **food chain** with hawks, snakes, rabbits, and grass. In this simulation, the hawks eat snakes, the snakes eat rabbits, and the rabbits eat grass.

1. **Producers** are organisms that do not need to eat other organisms to obtain energy.
 - A. Which organism is a producer in this food chain? Grass
 - B. Where does the producer get its energy? The sun to make food from matter
2. **Consumers** must eat other organisms for energy. Which organisms are consumers in this food chain? Herbivores

Gizmo Warm-up

The SIMULATION pane of the Gizmo shows the current **population**, or number, of each organism in the food chain.

1. What are the current populations of each organism?

Hawks: 42 Snakes: 278 Rabbits: 2846 Grass: 217300



2. Select the BAR CHART tab, and click **Play** (▶). What do you notice about each population as time goes by?

It's all the same

If populations don't change very much over time, the ecosystem is in **equilibrium**.

3. Notice the populations decrease as you go from the bottom of the food chain to the top. Why do you think this is so? Because it's the start? Top of the food chain

This diagram, showing decreasing populations at each level, is called an **energy pyramid**.

Gizmo Activity Atomic Structure Answer Key

PT Brinkman

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the PT Brinkman text.

Gizmo Activity Atomic Structure Answer Key:

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