



Name:

Date:

Student Exploration: Rabbit Population by Season

Directions: Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

Vocabulary: carrying capacity, density-dependent limiting factor, density-independent limiting factor, limiting factor, population, population density

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

1. Suppose you had a pet rabbit. What would the rabbit need to stay alive and healthy?

In order for it to stay alive and healthy, the rabbit would need food, water, proper shelter, sunlight, exercise, etc.

2. A female rabbit can give birth to over 40 baby rabbits a year. Suppose all of her offspring survived and reproduced, all of their offspring survived and reproduced, and so on. If that happened, in only eight years the mass of rabbits would exceed the mass of Earth!

So, why aren't we overrun with rabbits? What keeps the rabbit population in check?

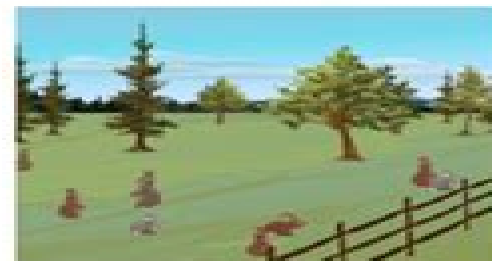
Rabbit's prey such as wolves, cats, dogs, falcons, etc. are what keeps the rabbit population in check.

Gizmo Warm-up

A **population** is a group of individuals of the same species that live in the same area. The size of a population is determined by many factors. In the *Rabbit Population by Season* Gizmo, you will see how different factors influence how a rabbit population grows and changes.

1. Select the BAR CHART tab. What is the size of the initial rabbit population?

The initial rabbit population is 40.



2. Select the TABLE tab. Click **Play** (▶), and allow the simulation to run for one year.

A. In which season did the rabbit population increase the most?

The rabbit population increased the most in spring.

B. In which season did the rabbit population increase the least?

The rabbit population increased the least in winter.

Gizmo Lab Answers Rabbit Population By Season

S Ben Porath



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