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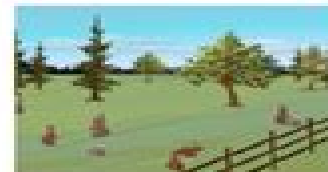
## Student Exploration: Rabbit Population by Season

**Directions:** Follow the instructions and 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

### 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?

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?

spring

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

winter

### Activity A:

#### Carrying capacity

#### Get the Gizmo ready:

- Click **Reset** (↺).



**Question:** What determines how large a population can grow?

1. Think about it: A **limiting factor** is any factor that controls the growth of a population. What do you think are some of the limiting factors for the rabbit population?

winter, food, predators, space, ect

2. Run Gizmo: Select the **DESCRIPTION** tab. Set the **Simulation speed** to **Fast**. Select the **GRAPH** tab. Click **Play**, and allow the simulation to run for at least 10 years. (Note: You can use the zoom controls on the right to see the whole graph.)

- A. Describe how the rabbit population changed over the course of 10 years.

increased and stayed around 350

- B. What pattern did you see repeated every year?

increase in spring decrease in winter

# Population Dynamics Gizmo Worksheet

**Katrin Zwirgmaier**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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