

## 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.

### Define Each Vocabulary Word:

carrying capacity-a species' average population size in a particular habitat

density-dependent limiting factor-any force that affects the size of a population of living things in response to the density of the population

density-independent limiting factor-any force that affects the size of a population of living things regardless of the density of the population

limiting factor- anything that constrains a population's size and slows or stops it from growing

population-a group of individuals of the same species living and interbreeding within a given area

population density- the number of individuals per unit geographic area

### 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?

Food, water, and shelter

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?

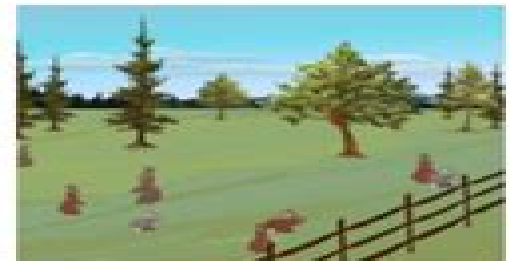
We aren't overrun because rabbits are at the bottom of the food chain, therefore they are prey for larger predators like eagles, hawks, and owls.

### 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?

# Rabbit Population By Season Gizmo

**Camilla Rothe**



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jun 29 2022 alternating current circuits or ac circuits are simply circuits powered by an alternating source either current or voltage an alternating voltage or current is one in which the amount of either the voltage or the current alters about a distinct mean value and reverses direction periodically in an ac circuit the source voltage and current

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$\omega$  represents the frequency of a sine wave when we write it this way  $\sin \omega t$  if  $\omega = 1$  the sin completes one cycle in  $2\pi$  seconds if  $\omega = 2\pi$  the sin completes one cycle sooner every 1 second for  $f = 1$  if  $\omega = 2\pi f$  the sin completes one cycle even faster every  $1/f$  seconds or equivalently sin completes  $f$  cycles in 1 second

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ac circuit analysis notes provide a comprehensive overview of alternating current theory covering topics such as impedance reactance ac power calculation phasor diagrams resonance in ac circuits complex numbers in ac circuits ac circuit equations and ac circuit components