

Understanding Population Graphs and Carrying Capacity

Why Are Population Graphs Important?

- In ecology, _____ graphs help us see how the population _____ changes over _____.
- _____ is an important concept in these graphs, showing us the _____ number of individuals an environment can _____ over time.



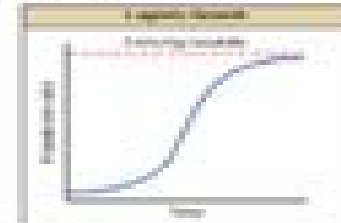
Types of Growth Patterns in Population Graphs

Exponential Growth



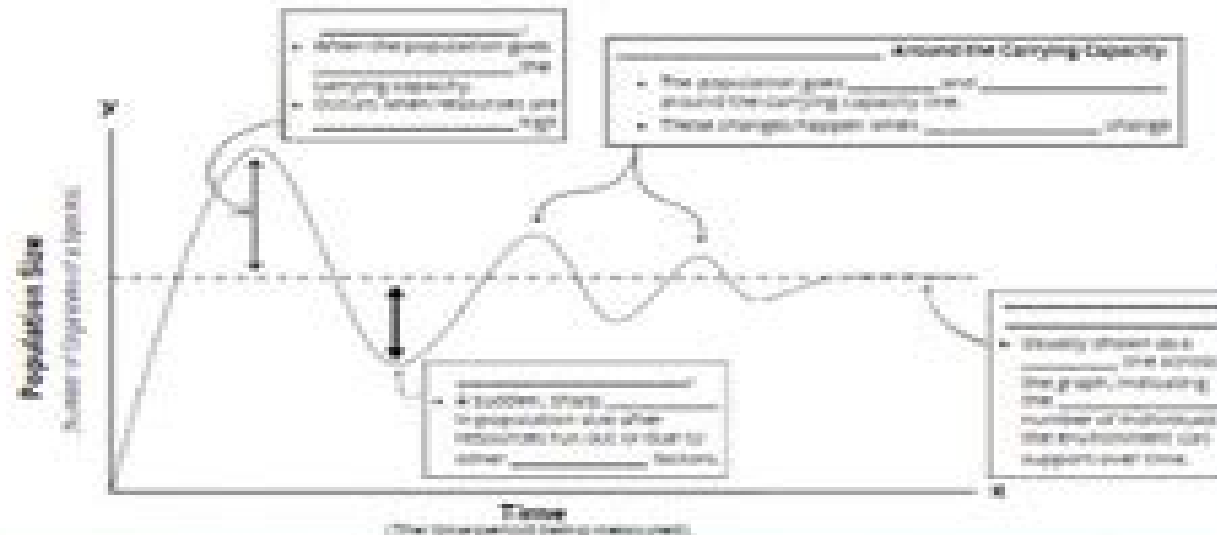
- A _____ increase in population size when resources are unlimited.
- _____ shaped curve.
 - Example: Bacteria in a petri dish with lots of food show exponential growth until food runs out.

Logistic Growth



- Population growth that starts quickly but then slows down as it reaches _____.
- _____ shaped curve that levels off near the carrying capacity.
 - Example: A deer population in a forest may grow quickly but then slows as food becomes limited.

Parts of a Population Graph



Population Graphs Learning Guide

M Woodhall



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about transcript the ratio of a sinusoidal voltage to a sinusoidal current is called impedance this is a generalization of ohm's law for resistors we derive the impedance of a resistor inductor and capacitor the inductor and capacitor impedance includes a term for frequency so the impedance of these components depends on frequency

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ω 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 2π seconds if

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