

Name: _____

Date: _____

Class: _____

IB ESS

2.1 Species and Populations

Significant ideas:

A species interacts with its abiotic and biotic environment, and its niche is described by these interactions.

Populations change and respond to interactions with the environment.

All systems have a carrying capacity for a given species.



Key Vocabulary

1. Define the following:

Species

Habitat

Niche

Abiotic factors

Biotic factors

Carrying capacity



2. Distinguish between *fundamental niche* and *realized niche*.

3. Explain why population growth slows when a population approaches its carrying capacity.



Interactions

1. Define the following species interactions

Competition

Predation

Herbivory

Parasitism

Mutualism

2. Distinguish between intra- and inter-specific competition.



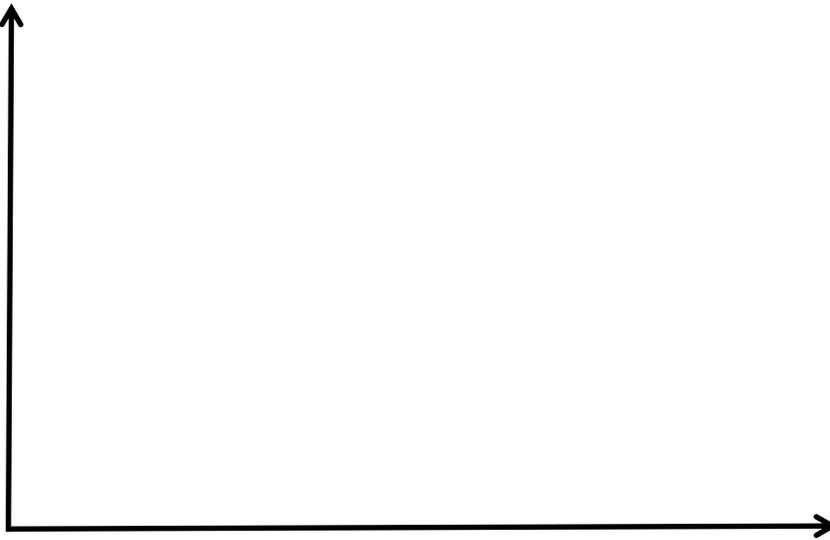
Population Changes

1. Outline what is represented in S and J curves.

2. Draw a **labeled** S and J curve.

- Include a dotted line to represent the carrying capacity.
- Show fluctuation on the J curve.

S curve:



J curve:

