

# Lesson Plan - Limiting Factors and Carrying Capacity

Class: Grades 7-11

Learning Objective: Students will be able to use data to explain how resource availability affects populations.

I CAN show how resource availability affects populations.

NGSS: MS-LS2-1: Analyze and interpret data to provide evidence for the effects of resource availability on organisms and populations of organisms in an ecosystem.

## Materials:

- Slide show
- Population cards
- Data table
- Graph paper
- computers

## Procedure:

Step	Student Action	Teacher Action	Time Period
Intro	Respond to <a href="#">population photo</a> .	1. Display <a href="#">population photo</a> and elicit responses. 2. Introduce "I Can" Statement.	3 minutes
Instruction	Complete <a href="#">cloze notes</a>	Mini-Lesson on limiting factors and carrying capacity using <a href="#">slide show</a>	10 minutes
Brain Break	Practice.	Demo "Limit" in ASL.	3 minutes
Collaborative Activity	Hands on activity: <a href="#">Frog Population Lab</a> . Students draw cards from envelope (or complete digitally) and apply limits to a population of frogs.	Explain instructions. Collect formative feedback.	30 minutes
Closure	Practice vocab using <a href="#">Boom Cards</a>	Collect formative feedback	4 minutes