

ESS.3.5 Carbon Cycle

Name _____

Acidification Lab

1. What is the problem from the [video](#)?

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2. Identify the cause and effect of ocean acidification.

Cause→	→ Effect
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3. Model the reaction created with CO₂ (carbon dioxide) and water to make carbonic acid.

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Objective: You will design an investigation examining how changing environmental factors can influence carbon dioxide's effect on the hydrosphere. Use the lab rubric to complete the prompts below.

What specific **question** are you trying to answer with your investigation:

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Hypothesis: If _____ is changed, then _____ will happen because....(add reasoning)

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Design and setup: Describe your lab procedures

Materials:	Diagram:

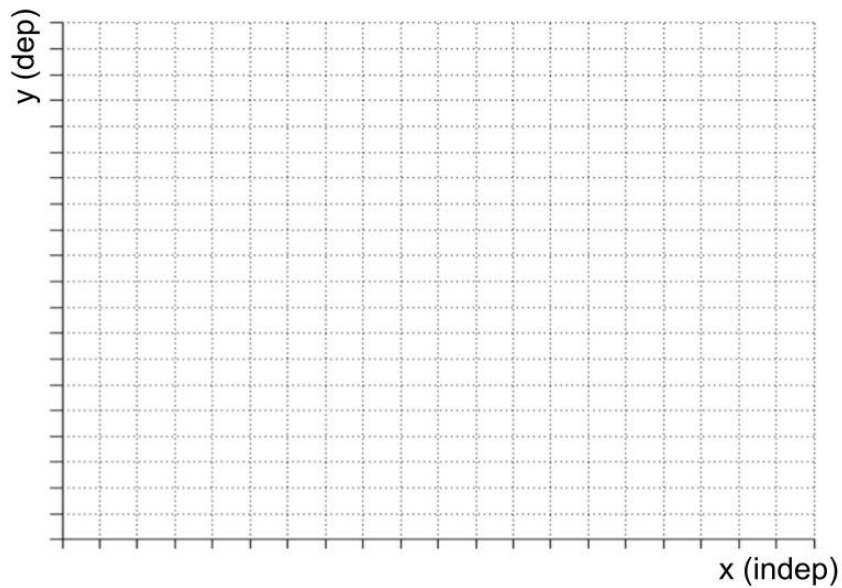
Identify **variables**:

Independent	Dependent	Controls (list at least 2)

Graph Title:

Record your **data** below:

Independent x- axis	Dependent y-axis
units()	units ()



Analysis: What relationship does your data show? (see rubric)

Conclusion: (see rubric)

Gallery Walk:

Factor Changed - Cause (Independent variable)	Acidification - Effect slower time = ↓ acidification higher pH # = ↓ acidification	Earth's Sphere (hydrosphere, geosphere, atmosphere, biosphere)

Real world application:(see rubric)