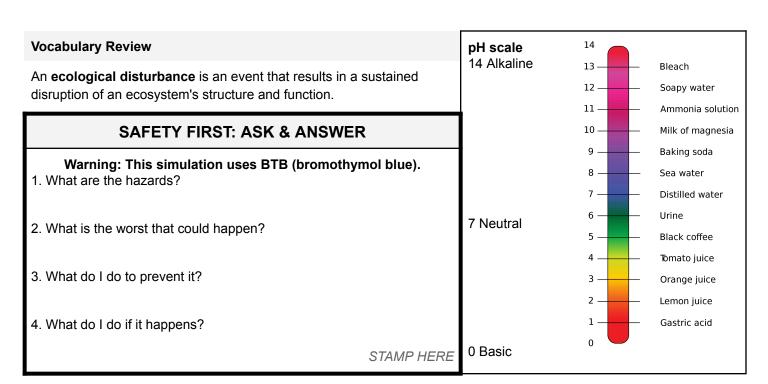
Lab: Ocean Acidification	Student
!!	Class



1. INTRODUCTION

Marine organisms that make calcium carbonate shells or hard skeletons are negatively impacted by increasing CO2 levels, When the ocean pH decreases, corals cannot make their skeletons.



2. MATERIALS

Read with your group the list of materials needed. Make sure everyone in your group knows what the items are.

- Vinegar
- Baking soda
- ☐ BTB (bromothymol blue) (absorbed through skin!)
- 1 plastic cup
- 1 paper cup
- Spoon
- Masking tape



==PAUSE== ==PAUS

Read the procedures on the back, THEN check your group's understanding:

- 1. What is the control setup in this experiment?
- 2. What is the test setup in this experiment?
- 3. What do we have to make sure about the paper cup?

STAMP HERE TO GET MATERIALS

3. PROCEDURES

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_	Role	Job
	Safety Officer	 Instruct everyone to put on their safety goggles. Pour 50 mL of BTB into each plastic cup.
	Time Keeper	3. Measure and add 2 grams (1/2 tsp.) of baking soda to the paper cup.
	Recorder	 4. Tape the paper cup inside one of the clear plastic cups, making sure the top of the paper cup is about 1/2 inch (roughly 1 centimeter) below the top of the plastic cup. (Make sure the bottom of the paper cup is not touching the surface of the liquid in the plastic cup—you don't want the paper cup to get wet.). 5. Place the cup on a white sheet of paper.
	Materials Manager	6. Carefully add 5 mL of vinegar to the paper cup. DO NOT SPILL THE VINEGAR. 7. Immediately put a cover on top of each plastic cup. Wait 10 seconds.
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. W		observations about what you see. (Include details like color, time, etc.)
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	-	your group: what do you think is causing this inside the cup? Draw and label a model in the space ins what you think is causing the changes inside the cup.
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