

Name: Actual Student Teacher: \_\_\_\_\_ Period: \_\_\_\_\_ Date: \_\_\_\_\_

### **Lesson 3 Plan – Defining the Problem: Ocean Acidification**

Watch the 21 minute video: “Acid Test: The Global Challenge of Ocean Acidification”. Fill out this guide to remind yourself of ‘talking points’ for the discussion to follow.

1. As you watch the video, come back to this chart to include as many examples as possible.

Stakeholders (organisms, groups involved)	Positive aspects of oceans (what the oceans do for the planet)	Problems associated with CO <sub>2</sub>
• plants • sealife • people • coral reefs	• absorbs CO <sub>2</sub> from fossil fuels • provide food	• global warming • acidic oceans -removes molecules for shell building from oceans -dissolve seashells

2. Write down 2 statements that sound like a statistic (includes numbers).
  - ocean acidity up 30% since industrial revolution
  - life on earth began 3.5 million years ago
3. Write down 2 statements that may refer to a statistic but did not include numbers.
  - terapods live in great abundance in polar waters
  - ocean acidity will rise most quickly in cold water regions
4. What information would you like to have, in order to fully understand the impact of ocean acidification?  
Can ocean acidification cause problems related to erosion?
5. Who do you think should take the lead in addressing the problem of ocean acidification? Be specific.  
Governments and possibly the UN in order to enforce regulations on a worldwide scale because they have the resources and authority to address the issue of ocean acidification.