

VIDEO: THE ACID TEST

The Global Challenge of
Ocean Acidification

Name _____

Date _____ Per _____

Instructions: View the National Resource Defense Council video, *The Acid Test* and answer the questions below. **Either link should take you to the movie:**

- www.acidtestmovie.com
- <http://www.youtube.com/watch?v=5cqCvcX7buo>

1. What TWO things do the oceans do for “us”?
2. Global warming has been a topic of concern, but Ocean Acidification (the “other problem”) has only been an increasing concern in the last _____ years.
3. The burning of _____, _____, and _____ are introducing CO₂ to the atmosphere, but the atmosphere touches the ocean over _____% of the earth’s surface. So the CO₂ that we put into the atmosphere is also being put into the _____.
4. If CO₂ is a natural part of the atmosphere and necessary for plants, what is the problem? It is a by-product of _____. Why do you think this is part of the problem?
5. Since the industrial revolution the ocean has absorbed _____ of the CO₂, which is about _____ million tons of CO₂ each day!!
6. Acidity means that ocean animals work harder to make _____ so they have less energy to spend on

7. In water that is too acidic shells can actually _____.
Do you think shells can be reformed as quickly in water with greater acidity? Why or why not?
8. You can't just worry about the big things in the ocean, you have to worry about what they _____ and where their _____ comes from. If the _____ in the ocean are affected by acidification, then it ripples all the way up the food web making even the _____ things even more _____.
9. What is the "double jeopardy" of the coral reefs discussed in the film?
10. What is the ratio of ocean species that live in a coral reef? _____
11. Yes, 100 million years ago (MYA) we had high CO₂. But what is the BIG difference between the rates of CO₂ increase then versus now?
12. Can the ocean "heal itself"? _____ What are some suggestions given in this film that will give the ocean a chance?