**VIDEO: THE ACID TEST**  Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

The Global Challenge of Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Per\_\_\_\_\_

Ocean Acidification

**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.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?