

### Blue Planet

Answer the following questions while watching *Blue Planet*. This movie was originally an IMAX documentary, and serves us as a review of our semester and a preview of some of the topics we will discuss next semester.

1. How much of the earth is covered in water?
2. What shields us from the cold of space?
3. What caused the oceans to form?
4. What causes the red lake in Africa? Is there life in this lake?
5. What is the only animal that evolved in Africa that can stand upright?
6. On earth, what absorbs the  $CO_2$  that we exhale? In space, how do the astronauts remove the  $CO_2$  from the air that they breathe in their space ship?
7. Heat from the sun \_\_\_\_\_ water from the oceans to form \_\_\_\_\_.
8. Winds drive the clouds over land. \_\_\_\_\_ from the clouds falls back to the Earth and then runs down to the sea where the \_\_\_\_\_ beings once more.
9. What happens in places that have a lot of rainfall?
10. In deserts, people can drill into the earth to get water that's trapped in the rocks. How quickly will this water be used up? How long will it take to replace this water?
11. What is a glacier?
12. Analyzing samples from glaciers can help scientists predict what?
13. How are satellites used to monitor the Earth? List 2 examples.
14. What is the most dangerous and unpredictable storm on earth?

15. How deep is the crater in Arizona? Is it a big crater compared to other craters found on earth?
16. The young earth was once covered with impact craters. Why can't we see all of them now?
17. As volcanoes in the middle of the ocean plate produce new rock/oceanic crust, what happens to the rocks at the other side of the plate?
18. The film shows Sakura-jima volcano in Japan. What type of volcano is it, shield or composite?
19. The San Andreas fault is between which two plates?
20. What is the newest force that is changing, or destroying, the Earth?
21. What negative results occurred because settlers cleared forests to make farm land in the Midwest?
22. Where is the most eroded place on Earth? What caused this fast erosion?
23. Half of the Earth's species are found here.
24. How many acres of tropical rainforest are destroyed each second? How many species are estimated to go extinct each day?
25. What is polluting our air? What gas do cars and factories emit?
26. True or False: The people on Earth use enough electricity that it can be seen from space at night.
27. What do  $CO_2$  and other greenhouse gases do to the heat on Earth? How big is the hole in the ozone layer?
28. Why is it important to remember that what we do and change on Earth affects all of the Earth's people and species?