

Name: _____

Period: ____ Date: _____

Marine Science Quiz 1 REVIEW: Scientific Method, Global Ocean & Ocean Basin

Key Words – *be able to define or explain the following terms and concepts:*

- Marine -

- Marine Biology -

- Oceanography -

- Scientific Method (list 6 steps) -

- Observation -

- Hypothesis -

- Quantitative Data -

- Qualitative Data -

- Variable -
 - Independent -

 - Dependent -

- Controlled Experiment -

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QUESTIONS – answer the following questions in complete sentences.

Scientists are conducting an experiment to test the effects of temperature on the growth rate of algae. They want to find out if the high temperatures this past August have increased the growth rate. They set up two saltwater tanks, each with the same species of algae. One of the tanks has the water temperature held at 15C while the second tank has a water temperature of 30C. The experiment is run for 1 month, with the algae growth recorded every 5 days. At the end of the month, the 30C tank has grown three times as much algae as the 15C tank.

1. What is the hypothesis for this experiment? _____

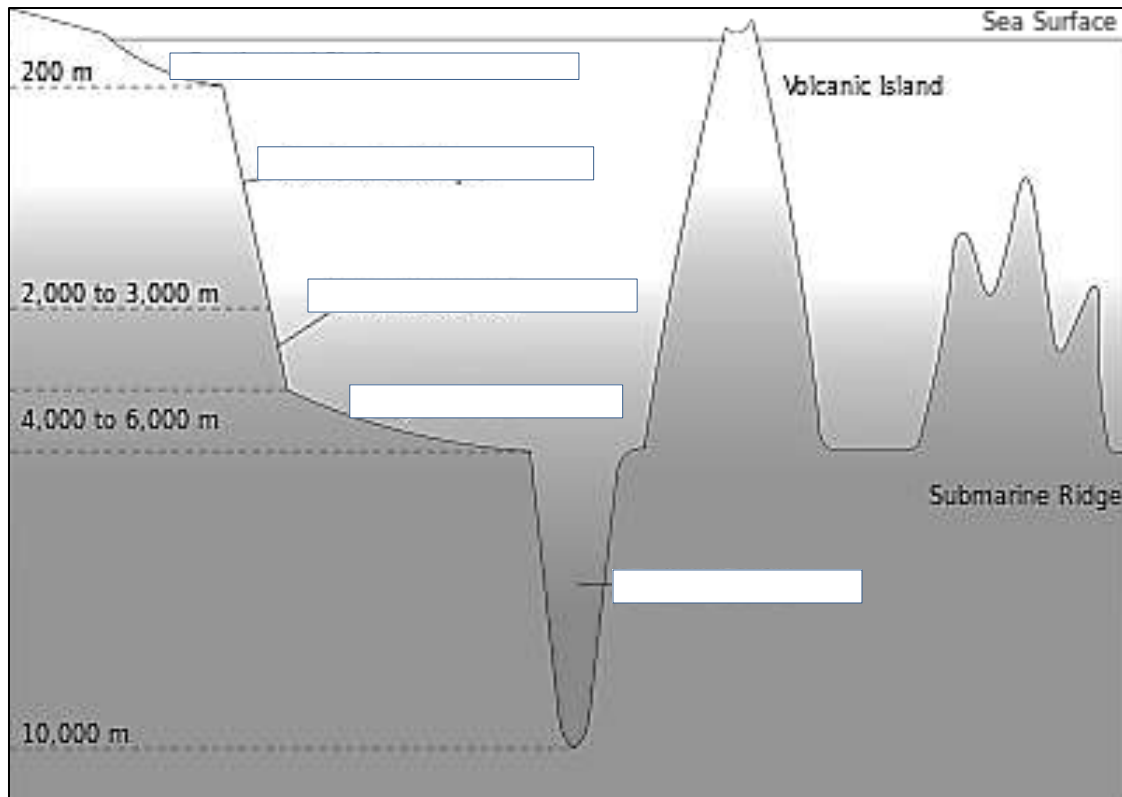
2. What is the manipulated (independent) variable? _____
3. What is the responding (dependent) variable? _____
4. What is the control group? _____
5. What is the experimental group? _____
6. What should the conclusion be? _____
7. How much of the Earth's surface is covered by water?
8. How much of the Earth's water is freshwater?
9. Name the 4 major ocean basins:
10. Which ocean do you think is the largest?
11. Where two major oceans come close together, they enclose a _____.

12. **Define** the major features of the ocean basin & **label** them on the diagram:

| | |
|---------------------------|--|
| <u>Continental shelf:</u> | |
| <u>Continental slope:</u> | |
| <u>Continental rise:</u> | |
| <u>Abyssal plain:</u> | |
| <u>Trench:</u> | |
| <u>Mid-ocean ridge:</u> | |

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13. What is sea-floor spreading? Explain the process using the terms, *mid-ocean ridge*, *subduction*, *trench*.

14. If the sea floor is spreading, how is the Earth not growing?

15. What is the average salinity of the ocean? What are the two main ions dissolved in saltwater?

16. Why is salinity highest at the mid-latitude (near equator)? Why is it lower at the edges of the continent?

17. What is the difference between euryhaline and stenohaline species? Give an example of each.