

Name: _____

Date: _____ Period: _____

TEST REVIEW: Intro to Marine & Water Properties

(Hand this in on the day of the test for a homework grade.)

Define the following terms (use your notes or textbook):

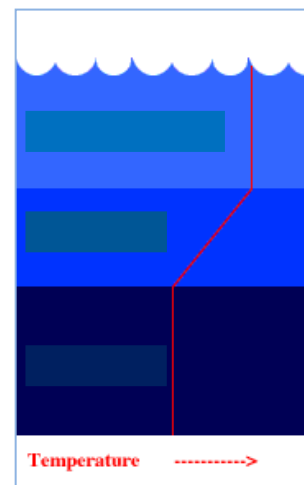
- Mid-ocean Ridge -
- Salinity -
- Euryhaline -
- Stenohaline -
- Epipelagic zone –
- Thermocline –
- Density –
- Buoyancy –
- Dissolved Oxygen –
- Pressure -
- pH scale (acid vs. base – in terms of ions) –

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Answer the following questions, *in complete sentences!!!*

1. How much of Earth's water budget is made up of freshwater? Salt water?
2. What 4 main oceans are created by the continents? Which is the largest?
3. What is the average salinity of the ocean? What are the two main ions dissolved in saltwater?
4. Why is salinity highest at the mid-latitude (near equator)? Why is it lower at the edges of the continent?
5. What is the difference between euryhaline and stenohaline species? Give an example of each.
6. What are the 3 main layers of the ocean? Label them on the diagram. Which layer has the most drastic temperature change?
7. Which is more dense, warm or cold water? Explain (tell me about the molecules).



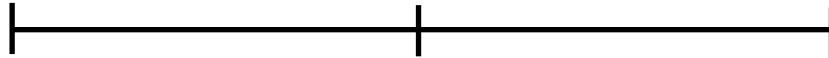
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8. What is the average salinity of the ocean? What is the relationship between ocean depth and salinity?

9. Why is it easier to float in saltwater than in freshwater?

10. Label the pH scale below, showing which end is basic, acidic and neutral. Give an example of an acid, base and a neutral solution.



11. What happens when carbon dioxide dissolves in water? How does this affect the pH?

12. What is ocean acidification?

13. What are we (humans) doing that is increasing the rate of OA?

14. Does OA happen more in cold or warm water? Why?

15. What ions are released when carbonic acid mixes with water? (name 2)

16. What effect does each ion have on the ocean? pH? Calcium carbonate?

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17. How is OA harming shelled organisms and coral?

18. What does carbon dioxide form when mixed with water?

19. Explain how the pH of the ocean is kept constant between 8-9. Give 2 reasons and one example.

20. Why is dissolved oxygen highest at the surface of the ocean? Name two ways that oxygen is dissolved in the ocean.

21. What happens to water pressure as you go deeper in the ocean?