**Water 2: Study Guide NAME: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ BLOCK: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**TERMS & CONCEPTS**

Directions: Identify the meaning and/or importance of the following concepts. Write 1-3 sentences for each.

|  |  |  |
| --- | --- | --- |
|  | **TERM** | **DEFINITION** |
| **1** | **Adhesion** |  |
| **2** | **Cohesion** |  |
| **3** | **chemosynthetic organisms** |  |
| **4** | **upwelling** |  |
| **5** | **Environmental Protection Agency** |  |
| **6** | **Temperature** |  |
| **7** | **Brackish Waters** |  |
| **8** | **Septic System** |  |

**REFLECTION QUESTIONS:**

**9. Explain the difference between Phytoplankton and Zooplankton**

**10. Explain the difference between chemosynthesis and photosynthesis.**

**11. How does Eutrophication occur?**

**12. Which zone are Kelp Forests and Coral Reefs found, and how are do they differ?**

**13. Which property of water causes surface tension, giving insects the ability to walk on water?**

**14. List two unique characteristics for each ocean zone.**

Intertidal -

Neritic -

Benthic -

**15. If there is no sunlight in the deep ocean, how is life capable of surviving on the ocean floor?**

**16. Write 1 sentence describing how each water quality indicator is affected during the process of eutrophication.**

pH -

Turbidity -

Dissolved oxygen -

Temperature -

Nitrates & Phosphates (nutrients) -

Salinity -

Bioindicators -

**17. Which nutrients are responsible for eutrophication in lakes and ponds? Where does each originate from?**

**18. What numbers are acidic on the pH scale? Which numbers are basic? Which substance is associated with a pH level of 7? What is the pH of saltwater?**

**19. How are bioindicators used to determine the health of water?**

**20. What kind of substance would most likely decrease the pH level if it leaked into a body of water?**

**21. Name and describe the 3 different technologies used to explore our oceans. Which would allow us to explore the deepest parts of the ocean?**

**22. Explain what SONAR is used for.**

**23. Which organism is at the base of most ocean food webs?**

**24. How do temperature and salinity help create ocean currents?**

**25. Why does more than half of Earth’s oxygen come from our oceans?**