

8

Names _____ Per _____
AP BIOLOGY WARM UP In Pairs *(first pair done gets a piece of gum!)*

NO BOOKS & NO NOTES.....JUST USE YOUR NOGGINS!

1. Atomic # =
2. Mass # =
3. T or F The more distant the electrons are from the nucleus, the greater the potential energy?
4. A negatively charged ion is called a(n) _____
5. When electrons are shared equally, such as in O₂, what type of bond is formed?
6. Same element but vary in # of neutrons _____
7. Ionic compounds are called _____
8. If electrons are gained or lost, what kind of bond is formed?
9. The attraction of electrons to an atom is called _____
10. Elements with a valence of 1 or 7 tend to form what kind of bonds?
11. pH of 8 is acidic or basic?
12. If the concentration of H⁺ is 10⁻⁶ in a solution, its pH is ?
13. Substances that yield OH⁻ when they dissociate in water are called _____
14. What is neutral on the pH scale?
15. A pH of 3 is how many times more acidic than a pH of 4?
16. A pH of 3 is how many times more acidic than a pH of 5?
17. How many electrons total can be in the third energy level? The second? The first?
18. The 2 weakest bonds are
19. Are nonpolar compounds hydrophilic or hydrophobic?

20. When the rate of the forward reaction equals the rate of the reverse reaction, this is called _____
21. A molecule's biological function is related to its _____
22. T or F How atoms react with one each other depends on the number or electrons in the outer shell.
23. T or F With nonpolar covalent bonds, the sharing of electrons is unequal.
24. T or F Because water is a polar molecule, water molecules are hydrogen bonded together.
25. List as many water properties as you can (*winners will also get a piece of gum*)