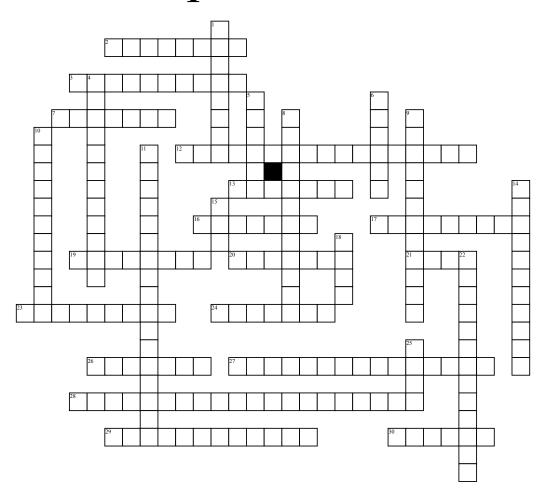
Date: \_\_\_\_ Name:

## Chapter 1 vocab



- 2. what moves around the nucleus of an atom?
- 3. What is the sum of the number of protons and neutrons in an atom's nucleus?
- 7. what material results from a chemical reaction?
- 12. what is called for the attraction of a given atom for the electrons of a covalent bond?
- 13. what potential patterns of electron density that may be formed in an atom or molecule by one or more electrons?
- 16. what liquid that is homogenous mixture of 2 or more substance called?
- 17. what chemical bond results from the attraction between oppositely charged ions?
- 19. if a substance is made of two or more different elements combined in a fixed ratio, what is it called?
- 20. what substance cannot be broken down to any other substance by chemical reaction?
- 21. what substance reduces the hyrdogen ion concentration
- 23. what chemical rule is needed for each atom has eight electrons in its valence shell?

- 24. what subatomic particle having no electrical
- charge(electrically neutral)?

  26. what is it called when one of several atomic forms of an element, each with the same number of protons but a different number of neutrons?
- 27. what is an electron in the outermost electron shell called?
- 28. what type of bond in which electrons are equally
- 29. what type is a weak chemical bond?
- 30. what minimizes changes in pH when acids or bases are added to the solution?

## Down

- 1. what is the name for two or more atoms held together by covalent bonds?
- 4. what is a shorthand interpetation of an element,
- moleculem or a compound called?
- 5. what takes up space and has mass?
- 6. what subatomic particle with a single positive electrial
- 8. what does proton in the nucleus of an atom tells us?

- 9. what type of strong chemical bond which two atoms
- share one or more pair of valence electrons? 10. what haves an affinity for water?
- 11. what bond between atoms that differ in
- electronegativity?
- 14. what haves no affinity for water?
- 15. what atom or group of atoms that has gained or lost one or more electron called?
- 18. What is the smallest unit of matter that retains the properites of an element?
- 22. what is it called when an energy level of electrons at a average distance from the nucleus of an atom?
- 25. What substance increases the hydrogen ion
- concentraion of a solution?

## Word Rank

WUIU DAIIK				
polar covalent bond	electron shell	ion	electronegativity	proton
valence electron	octet rule	mass number	atomic number	base
Atom	hyrdophilic	hydrogen bond	hydrophobic	Acid
isotope	nonpolar covalent bond	electron	atomic symbol	buffer
element	ionic bond	neutron	compound	matter
orbital	product	molecule	covalent bond	solvent