**Chapter 2 Test Review: You will ONLY be allowed to use this study sheet on the test. Fill out and turn in with your test for Extra Credit.**

1. **The molecules of life all contain the element \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.**
2. **What is an ionic bond?**
3. **What are the 6 properties of water?**
4. **What is a covalent bond?**
5. **What is a solution?**
6. **What kind of ions do bases produce?**
7. **What kind of ions do acids produce?**
8. **What are the 4 life molecules?**
9. **Know how to read the periodic table. What number represents the number of protons or electrons?**
10. **How do you figure out the number of neutrons using the periodic table?**
11. **What are the building blocks of proteins?**
12. **During chemical reactions what happens to atoms?**
13. **What is a chemical reaction? Identify the reactants and the products.**
14. **What do you call the energy needed to start a reaction?**
15. **What do we call a substance that speeds up a chemical reaction?**
16. **Atoms are made up of what three particles?**
17. **Where are electrons found in an atom?**
18. **Where are the protons and neutrons from in an atom?**
19. **What are isotopes?**
20. **What does the atomic number represent?**
21. **What is a compound?**
22. **A molecule of water is made up of?**
23. **The basic unit of matter is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.**
24. **A substance made up of only one kind of atom is an \_\_\_\_\_\_\_\_\_\_\_\_.**
25. **Proteins that speed up the rate of reactions in living things are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_,**
26. **The substances on the left side of the reaction as called the \_\_\_\_\_\_\_\_\_ while the substances on the right are called the \_\_\_\_\_\_\_\_\_\_\_.**
27. **IF a substance has a high amount of H+ ions it is an \_\_\_\_\_\_\_\_\_ while if it has a high amount of OH- ions it is a \_\_\_\_\_\_\_\_\_\_. Equal amounts make the substance \_\_\_\_\_\_\_\_\_\_.**
28. **What is an element?**
29. **When one Oxygen and two Hydrogen come together it makes \_\_\_\_\_\_\_\_.**
30. **What 3 particles make up an atom and what are their charges?**
31. **Can you lose or gain atoms during an chemical reaction?**
32. **IF a reaction in one direction release energy, the reaction in the opposite direction will \_\_\_\_\_\_\_\_ energy.**
33. **Proteins are made of \_\_\_\_\_\_\_\_\_\_\_\_\_\_ . Starch are made of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.**
34. **What are proteins?**
35. **What are carbohydrates?**
36. **What are nucleic acids?**
37. **What are lipids?**
38. **Draw the PH scale here.**

**Find the: Protons Electrons Neutrons Atomic Mass(Rounded)**

**Titanium \_\_\_\_\_\_ \_\_\_\_\_\_\_ \_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_**

**Copper \_\_\_\_\_\_ \_\_\_\_\_\_\_ \_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_**

**Fluorine \_\_\_\_\_\_ \_\_\_\_\_\_\_ \_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_**

**Draw the model of below: Argon Chlorine**