Chapter 3 Matter YSBAT

1.	Is glass a solid or a liquid? Why?
2.	Explain why the ion Mg^{+2} has a +2.
3.	What are the 8 most abundant elements in the earth's crust?
4.	Of the 8, which are the two most abundant?
5.	Make sure you know the common changes of state from page 12 of your notes.
6.	Circle the pH that is more acidic: pH 2 or pH 6.
7.	Is the following equation balanced? Explain Why or Why not? $2H_2 + O_2 \longrightarrow 2H_2C$
8.	What are valance electrons and why are they important?
9.	Define Ionic bonds
10	. Define Covalent bonds
11.	. How many atoms are present in the following molecule? H ₂ CO ₃
12	. Define solid
13.	. Define liquid
14	. Define gases
15	. Define acid
16	. Define base
17.	. Define mixture
18.	. Define solution

19. What subatomic particles are found in the nucleus? 20. Define homogeneous mixture 21. Define heterogeneous mixture 22. Define element 23. Define energy level 24. Define proton 25. Define neutron 26. Define electron 27. Define atomic number 28. Define atomic mass 29. Why do isotopes of the same element have the same chemical properties? 30. Fill in the following chart Atomic Number Number Number **Atomic Mass** Element of Protons of Neutrons of Electrons Number (rounded off) 1. Carbon 6 12 2. Nitrogen 7 7 3. Argon 22 19