

UNIT #3 - ELEMENTS, COMPOUNDS & MIXTURES

Section #1 - Classification of Matter

QUIZ

1. How would you classify H_2 ?
 - (a) A Mixture
 - (b) Ionic Compound
 - (c) Molecular Compound
 - (d) Pure Element
2. What is the correct classification of CO_2 ?
 - (a) A Mixture
 - (b) Ionic Compound
 - (c) Molecular Compound
 - (d) Pure Element
3. A fluid has a uniform appearance. It consists of acetic acid dissolved in water. How would you classify it ?
 - (a) Heterogeneous Mixture
 - (b) Homogeneous Mixture
 - (c) Ionic Compound
 - (d) Molecular Compound
4. How would you classify BaO ?
 - (a) A Mixture
 - (b) Ionic Compound
 - (c) Molecular Compound
 - (d) Pure Element
5. Name the two types of particles that are found in the nucleus.
6. What type of particle can be found in the shells of an atom ?
7. What would be the charge on a Column #2 ion ?

8. Explain the difference between an ionic bond and a covalent bond.
9. Which element has the greater atomic mass – Nitrogen or Sodium ?
10. What does the atomic number tell us about an element ?
11. How many different elements are in the substance C_6H_5Br ?
12. How many atoms are in a CH_4 molecule ?
13. Define the term **Heterogeneous Mixture**.
14. What is a solvent ?
15. Which phase has the fastest moving molecules ?
16. Which phase (or phases) has a constant volume ?
17. Which phase (or phases) is easily compressed ?
18. Define the term **Viscosity**.
19. Define the term **Malleability**.
20. What happens to the temperature of a piece of iron, as it is melting ?
21. A lump of ice turns into liquid water.
What is the name of this phase change ?