**Phases of Matter:**

1. List the 4 phases of matter:
2. What is plasma?
3. List the phase(s) of matter that have a definite shape:
4. List the phase(s) of matter that have a definite volume:
5. What happens to the molecules inside a substance as the substance turns from a liquid into a gas?
6. What happens to the molecules inside a substance as the substance turns from a liquid into a solid?
7. Which phase of matter is the most abundant in the universe?

**Matter:**

1. What is matter?
2. What are the 3 parts of the kinetic theory of matter?



1. What are the 2 groups that all matter is broken down into?
2. Describe an element:
3. Describe a compound:
4. Describe a homogeneous mixture:
5. Describe a heterogeneous mixture:

**Classification of Matter:**

|  |  |  |
| --- | --- | --- |
| Material | **Pure Substance or Mixture** | **Element, Compound,**  **Homogeneous, Heterogeneous** |
| Pepsi |  |  |
| sugar  (C12H22O11) |  |  |
| Pure gold nugget (Au) |  |  |
| Caffeine (C8H10N4O2) |  |  |
| Capn’ Crunch Cereal |  |  |
| Salt (NaCl) |  |  |
| Water in a Pool |  |  |

**Chemical vs Physical Changes:**

1. What is a physical change?
2. What happens to bonds in a physical change?
3. Can you take apart substances or mixtures with a physical change?
4. What are 3 things that occur within a physical change?
5. What is a chemical change?
6. What happens to bonds in a chemical change?
7. Can you take apart substances or mixtures with a chemical change?
8. What are 3 things that occur within a chemical change?