**Worksheet #8**

**Name: Period: Seat#:**

**Fill in the following definitions**

|  |  |  |
| --- | --- | --- |
|  | **Vocab Word** | **Definition** |
| **1)** | Physical Property |  |
| **2)** | Physical Change | *Change in which the identity of the substance does NOT change* |
| **3)** | Chemical Property |  |
| **4)** | Chemical Change |  |

**Identify each as either a chemical or a physical PROPERTY. Use C for chemical, P for physical.**

|  |  |  |  |
| --- | --- | --- | --- |
| **Statement** | **C or P** | **Statement** | **C or P** |
| 1. Blue color
 |  | 1. Density
 |  |
| 1. Flammability
 |  | 1. Solubility
 |  |
| 1. Supports combustion
 |  | 1. Sour taste
 |  |
| 1. Melting point
 |  | 1. Odor
 |  |
| 1. Luster
 |  | 1. Neutralize an acid
 |  |
| 1. Boiling point
 |  | 1. Hardness
 |  |
| 1. Reacts with acid to form H2
 |  | 1. Reacts with water to form a gas
 |  |

**Identify each as either a chemical change or a physical CHANGE. Use C for chemical, P for physical.**

|  |  |  |  |
| --- | --- | --- | --- |
| **Statement** | **C or P** | **Statement** | **C or P** |
| 1. Glass breaking
 |  | 1. Hammering wood together
 |  |
| 1. A rusting bicycle
 |  | 1. Melting butter
 |  |
| 1. Separating sand from gravel
 |  | 1. Bleaching your hair
 |  |
| 1. Frying an egg
 |  | 1. Squeeze oranges for juice
 |  |
| 1. Melting ice
 |  | 1. Salt dissociating in water
 |  |
| 1. Mixing oil and water
 |  | 1. Water evaporating
 |  |
| 1. Cutting grass
 |  | 1. Burning leaves
 |  |
| 1. Fireworks exploding
 |  | 1. Cutting your hair
 |  |
| 1. Crushing a can
 |  | 1. Boiling water
 |  |
| 1. Combustion
 |  | 1. Melting
 |  |
| 1. Dissolving sugar
 |  | 1. Metabolizing
 |  |
| 1. Filtering
 |  | 1. Fermenting
 |  |
| 1. Decomposing
 |  | 1. Distilling
 |  |
| 1. A pellet of sodium is sliced into two pieces
 |  | 1. HCl reacts with NaOH to produce a salt, water, and heat
 |  |
| 1. Potassium chlorate decomposes to potassium chloride and oxygen gas
 |  | 1. Acid on lime stone produces carbon dioxide gas
 |  |
| 1. Ice melts
 |  | 1. Iron rusts
 |  |
| 1. Crack an egg
 |  | 1. Bake a cake
 |  |

**Directions:** Identify each lettered box with as many of the following terms that makes sense: atom, molecule, compound, solid, liquid, gas, pure substance, mixture, homogeneous mixture, heterogeneous mixture. Highlight the words that apply.



 *Atom Solid Pure Substance*

*Molecule Liquid Mixture*

*Compound Gas Homogeneous*

 *Heterogeneous*

**A**



 *Atom Solid Pure Substance*

*Molecule Liquid Mixture*

*Compound Gas Homogeneous*

 *Heterogeneous*

**B**



 *Atom Solid Pure Substance*

*Molecule Liquid Mixture*

*Compound Gas Homogeneous*

 *Heterogeneous*

**C**



 *Atom Solid Pure Substance*

*Molecule Liquid Mixture*

*Compound Gas Homogeneous*

 *Heterogeneous*

**D**



 *Atom Solid Pure Substance*

*Molecule Liquid Mixture*

*Compound Gas Homogeneous*

 *Heterogeneous*

**E**



 *Atom Solid Pure Substance*

*Molecule Liquid Mixture*

*Compound Gas Homogeneous*

 *Heterogeneous*

**F**



 *Atom Solid Pure Substance*

*Molecule Liquid Mixture*

*Compound Gas Homogeneous*

 *Heterogeneous*

**G**



 *Atom Solid Pure Substance*

*Molecule Liquid Mixture*

*Compound Gas Homogeneous*

 *Heterogeneous*

**H**



 *Atom Solid Pure Substance*

*Molecule Liquid Mixture*

*Compound Gas Homogeneous*

 *Heterogeneous*

**I**



 *Atom Solid Pure Substance*

*Molecule Liquid Mixture*

*Compound Gas Homogeneous*

 *Heterogeneous*

**J**



 *Atom Solid Pure Substance*

*Molecule Liquid Mixture*

*Compound Gas Homogeneous*

 *Heterogeneous*

**K**



 *Atom Solid Pure Substance*

*Molecule Liquid Mixture*

*Compound Gas Homogeneous*

 *Heterogeneous*

**L**



 *Atom Solid Pure Substance*

*Molecule Liquid Mixture*

*Compound Gas Homogeneous*

 *Heterogeneous*

**M**



 *Atom Solid Pure Substance*

*Molecule Liquid Mixture*

*Compound Gas Homogeneous*

 *Heterogeneous*

**N**



 *Atom Solid Pure Substance*

*Molecule Liquid Mixture*

*Compound Gas Homogeneous*

 *Heterogeneous*

**O**



 *Atom Solid Pure Substance*

*Molecule Liquid Mixture*

*Compound Gas Homogeneous*

 *Heterogeneous*

**P**

**Group Review Activities** – Done in class.