Name:_____

Per:_____

Chemical Vs. Physical Change Lab

Pre-Lab Notes:

1. How can you identify a substance as one of the following below?
   - Element:
   - Compound:
   - Homogeneous Mixture:
   - Heterogeneous Mixture:
2. How can you identify a change as….
   - Physical Change?
   - Chemical Change?

Station 1: What did you do? (Diagram & describe.)	**At this station, identify the following substances as Homo or Hetero Mixtures, Compounds, or Elements.** The Pure Zinc Metal (Zn): Zinc, Acid, and bubbles all together: $HCl_{(aq)}$ before adding to zinc: Hydrogen gas (H_2) emitted:
Chemical or Physical Change? Describe why based on what you saw.	

Station 2: What did you do? (Diagram & describe.) **Chemical or Physical Change? Describe why based on what you saw.**	**At this station, identify the following substances as Homo or Hetero Mixtures, Compounds, or Elements.** $Pb(NO_3)_{2\ (aq)}$: The yellow solid $PbI_{2\ (s)}$: The white solid precipitate in the dish with the liquid:
Station 3: What did you do? (Diagram & describe.) **Chemical or Physical Change? Describe why based on what you saw.**	**At this station, identify the following substances as Homo or Hetero Mixtures, Compounds, or Elements.** Ammonium Chloride salt (NH_4Cl): Ammonium Chloride Salt gas dissolved into the air after subliming:

Station 4: What did you do? (Diagram & describe.) **Chemical or Physical Change? Describe why based on what you saw.**	**At this station, identify the following substances as Homo or Hetero Mixtures, Compounds, or Elements.** The acetone $CH_3COCH_{3\ (l)}$: The acetone gas dissolved into the air after evaporating:
Station 5: What did you do? (Diagram & describe.) **Chemical or Physical Change? Describe why based on what you saw.**	**At this station, identify the following substances as Homo or Hetero Mixtures, Compounds, or Elements.** Baking Soda ($NaHCO_{3\ (s)}$): Acetic Acid solution ($HC_2H_3O_{2\ (aq)}$): Carbon Dioxide Gas produced ($CO_{2\ (g)}$): Left over baking soda in the test tube with the water:

Station 6: What did you do? (Diagram & describe.) **Chemical or Physical Change? Describe why based on what you saw.**	**At this station, identify the following substances as Homo or Hetero Mixtures, Compounds, or Elements.** The magnesium Metal (Mg): Magnesium Oxide produced (MgO): The mess in the dish after the lab:
Station 7: What did you do? (Diagram & describe.) **Chemical or Physical Change? Describe why based on what you saw.**	**At this station, identify the following substances as Homo or Hetero Mixtures, Compounds, or Elements.** Sodium Hydroxide ($NaOH_{(aq)}$) : Bubbles and the liquid while blowing:

Station 8: What did you do? (Diagram & describe.)	**At this station, identify the following substances as Homo or Hetero Mixtures, Compounds, or Elements.** The wax before melting ($C_{25}H_{52}$): The entire birthday candle:
Chemical or Physical Change? Describe why based on what you saw.	

Distinguish between chemical and physical changes and properties.

Chemical or Physical Property?	**Chemical or Physical Change?**
Ability to evaporate:	*Drinking water:*
Ability to decay:	*Candle burning:*
Bubbles when mixed with acid:	*Sweating:*
Bends when heated:	*Potassium ignites in water:*
Does not Dissolve:	*Dry Ice Sublimes:*
Ability to resist corrosion:	*Bleaching your hair:*