## **PHYSICAL/CHEMICAL PROPERTIES & CHANGES ACTIVITY**

NAME: \_\_\_\_\_ PD: \_\_\_\_ DATE: \_\_\_\_\_

Follow the procedures at the stations and record observations for each step. Decide which observations (if any) indicate that a physical change occurred and which (if any) indicate that a chemical change occurred. Note: some procedures are complex enough to involve more than one change.

Observations	Interpretation
- (Station #1): Candle	Indicator(s) of Physical Change
-	Indicator(s) of Chemical Change
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(Station #2): Starch + Iodine -	Indicator(s) of Physical Change
-	Indicator(s) of Chemical Change
(Station #3): NaHCO <sub>3</sub> + Acetic Acid -	Indicator(s) of Physical Change
-	Indicator(s) of Chemical Change
(Station #4): CoCl <sub>2</sub> + AgNO <sub>3</sub> -	Indicator(s) of Physical Change
-	Indicator(s) of Chemical Change
(Station #5): CuCl <sub>2</sub> + Al	Indicator(s) of Physical Change
-	Indicator(s) of Chemical Change

(Station #6):	100 mL Water
- Volume of water in a volumetric flask is 100.0 mL.	
- Same volume of water in a graduated cylinder reads	mL. (Record to correct # of sig figs)
- Same volume of water in a beaker reads	_mL. (Record to correct # of sig figs)

(Station #7): Density of Unknown Solid Observation of substance:	Volume of solid = mL Show ALL Work & Units:
Grad Cylinder w/ water = mL	
Grad Cylinder w/water + solid = mL	
Mass of unknown solid = g	Density of unknown solid is g/mL Identity of unknown solid is most likely

(Station #8): Density of Unknown Liquid Observation of substance:	Mass of liquid in cylinder = g Show ALL Work & Units:
Mass of Empty Cylinder = g	
Mass of Cylinder + liquid = g	
Volume of liquid in cylinder = mL	Density of unknown liquid is g/mL Identity of unknown liquid is most likely