Physical and Chemical Properties Lab 1pt ec printing Name:_____Sci #___ Pd:___

Purpose: To describe the physical and chemical properties of matter based on the changes they undergo.
Problem: How do you determine whether a change is chemical or physical?

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Hypothesis: (what do you think will happen when they are mixed with Water , Vinegar, Iodine)
Baking Soda: _____
Corn starch:_____
Salt: _____

Procedure:

1. Using the chemistry wells container, place a small amount of baking soda in the top 4 wells
2. Record your observations of the powder into Table 1 in the 'Unmixed' column.
3. Use the popsicle stick to put some of the baking soda on the plate. Use a pipette to add water to the baking soda on the plate, mix with popsicle stick.
   Record your observations in Table 1 in the column labeled 'Mixed with Water'
4. Place another scoop of baking soda on the plate. Use the pipette to add Vinegar, stir.
   Record your observation in Table 1 in the column labeled 'Mixed with Vinegar'
5. Put a third scoop of baking soda on plate. Use the pipette to add iodine to the baking soda, stir.
   Record your observations in Table 1 in the column labeled 'Mixed with Iodine'.
6. Clean plate, Repeat steps 2-5 for each of the other substances (Cornstarch, Salt)

Table 1: Observations

Substance	Unmixed	Mixed w/ water	Mixed w/ Vinegar	Mixed w/ Iodine
Baking Soda				
Cornstarch				
Salt				

Table 2: Summary of Changes (did it change?) and Property Determination:

	Mixed w/ Water		Mixed w/ Vinegar		Mixed w/ Iodine	
Substance	Change	Property	Change	Property	Change	Property
Baking Soda						
Cornstarch						
Salt						

2. Suppose that you have a mixture of two substances. The mixture turns black when mixed with iodine and bubbles when mixed with vinegar. What two substances are in the mixture?

_____

3. How can you describe each of the three substances in terms of the chemical property of reactivity?

_____

_____

4. What is the difference between chemical and physical properties?

_____

_____

5. Pick one of the experiments and draw a picture below of the reaction you observed when you mixed the liquid with the powder.
Label your drawing.

Bolts Mini Lab

Container	Drawing Draw what you see in the container	**Which is it?** Element / Compound Or Mixture	**Explanation: Choose one of these and write it in:** 1. Element: ALL 1 type of atom 2. Compound: Specific Ratio/Attached or bonded / identical 3. Mixture: no bonds, random sorting, can easily separate
A			
B			
C			
D			
E			
F			
G			
H			
I			