Name	Hour_	Date		
White Before Your Eyes Lab				

Objective:

You have learned how to describe matter based on its physical and chemical properties. You have also learned some signs that can help you determine whether a change in matter is a physical change or a chemical change. In this lab, you'll use what you have learned to describe four substances based on their properties and the changes that they undergo.

MATERIALS

- · baking powder
- baking soda
- cornstarch
- sugar

- ice cube tray
- eyedroppers (3)
- · craft stick
- · iodine solution
- vinegar
- wate

Procedure:

- 1. Using a spoon place a small amount of baking powder in 3 cubes of the ice cube tray. Only use enough to cover the bottom of each cube.
- 2. Record your observations about the baking powder's appearance, such as color and texture, in the "unmixed" column of the table.
- 3. Use an eyedropper to add 60 drops of water to the baking powder in cube 1. Stir with a craft stick.
- 4. Record your observations in the table under the column labeled "mixed with water" Place the craft stick to the side, as you will not use it again.
- 5. Use a clean dropper to add 20 drops of vinegar to cube 2 and stir with another craft stick.
- 6. Record your observations in the table under the column labeled "mixed with vinegar" Place the craft stick to the side, as you will not use it again.
- 7. Use a clean dropper to add 5 drops of iodine to cube 3 and stir with another craft stick
- 8. Record your observations in the table under the column labeled "mixed with iodine" Place the craft stick to the side, as you will not use it again.

Repeat steps 1-8 for each of the other substances (baking soda, cornstarch, sugar) **be careful when using iodine – it can stain your skin and clothes**

Data Observations

Substance	Unmixed	Mixed with	Mixed with	Mixed with
Substance	Ommzea	Water	Vinegar	iodine
		vv atci	Vinegar	100,111
Baking				
Powder				
Baking Soda				
Cornstarch				
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Sugar				
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Analysis	and	Conclusion
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1. How do you know if a chemical change has occurred?	
2. What physical properties do all four substances share?	:
2.	

3. In the table below, write the type of **change – physical or chemical** – that you observed for each substance. State the **property** that the change demonstrates – **reactivity or solubility** (the ability to dissolve).

	Mixed with water		Mixed with vinegar		Mixed with iodine	
Substance	Change	Property	Change	Property	Change	Property
Baking powder						
Baking soda						
Cornstarch						
Sugar						