

NB pg 71: Chemical vs. Physical Change

1. Is the black ink a mixture or a pure substance? Explain.
2. Define and give an example of each:(pg 202)

Chemical Change:

Physical Change:

3. Is it a Chemical or physical change? Explain. (Hint: were there new substances or were they there before?)
 - a. Chromatography
 - b. Dissolving
 - c. Dilution
 - d. Reaction of Baking soda (a base) and vinegar (acid)
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NB pg 71: Crime Analysis

4. **Conclusion:** You are the local district attorney prosecuting the prime suspect in the case of the trashing of Chef Pash's kitchen. Write a paragraph making your case.

You **MUST** include in your paragraph:

- ⇒ A description of the evidence against the suspect that you believe committed the crime?
- ⇒ Describe why the other person is no longer a suspect?
- ⇒ Which substance (A or B) proved to be the baking soda from Chef Pash's kitchen? Give complete reasons for how you could tell.
- ⇒ What chemical change helped you identify the powder?
 - Explain (why it was a chemical change). Underline the phrase "new substances" in your answer.(use pg.202).
 - How did it help identify the substances?
- ⇒ What physical change helped you identify the powder?
 - Explain (why it was a physical change). (Underline the phrase "new substances" in your answer. (see pg.202).
 - How did it help identify the substances?