



Experiment 1 What Chemists Do

John Doe
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Purpose

1. To identify several common household chemicals by their chemical properties.
2. To analyze mixtures of common household chemicals of unknown composition.

Procedure

See lab manual "Laboratory Chemistry for the Health Sciences" Chemistry 51 by Maria Fenylis

Data/Observations

	Baking Soda	Starch	Alka Seltzer	Table Salt
White Vinegar				
Iodine Tincture				
Distilled Water				

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Handwritten notes and calculations on the left page of the notebook. The notes include several mathematical equations and diagrams, some of which are heavily scribbled over. Visible equations include:

$$f(x) = \frac{3x^2 - 2x + 1}{x^2 + 1}$$

$$g(x) = \frac{2x^2 - 5x + 2}{x^2 + 1}$$

$$\frac{f(x) - g(x)}{x^2 + 1} = \frac{3x^2 - 2x + 1 - (2x^2 - 5x + 2)}{x^2 + 1} = \frac{x^2 + 3x - 1}{x^2 + 1}$$

There are also several diagrams and scribbles, including one that looks like a simple face or shape.

Conclusions

- A. Baking Soda
- B. Corn Starch
- C. Alka Seltzer
- D. Table Salt

	Unknown # _____	Unknown # _____	Unknown # _____
White Vinegar			
Iodine Tincture			
Distilled Water			

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