

Name \_\_\_\_\_

## Exploring Familiar Acids and Bases: From Lemons to Soap

### Open-Ended Response Questions

1. Describe a situation where you might use vinegar as a cleaning agent at home. How does its acidity help in this scenario?
2. Research and share a surprising or unique use for baking soda (sodium bicarbonate) that you've come across or discovered.
3. Imagine you are in charge of maintaining a swimming pool. Explain the steps you would take to ensure the pH balance is optimal for swimmers' safety and enjoyment.
4. Investigate and describe the role of acids or bases in a specific industrial application, such as the manufacturing of a product or the treatment of waste materials.

