

Name: _____

Section: _____

Data and Calculations for Experiment 19

A. pH

<u>Solution</u>	<u>pH</u>
1. Prepared Soap	_____
2. Commercial Soap	_____
3. Commercial Detergent	_____
4. D.I. Water	_____

B. Emulsifying Properties

<u>Solution</u>	<u>Initial Observations</u>	<u>Observations After 1 Minute</u>
1. Prepared Soap		
2. Commercial Soap		
3. Commercial Detergent		
4. D.I. Water		

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C. Effect of Hard Water

<u>Solution</u>	<u>Initial Observations</u>	<u>Observations After 5 Minutes</u>
1. Prepared Soap		
2. Commercial Soap		
3. Commercial Detergent		

D. Describe the washing properties of your soap in terms of lathering ability and feel.

Questions

1. Which solution was most basic according to pH measurements?
2. Which solution(s) show(s) the best ability to emulsify oil?
3. Explain your observations for the addition of hard water. What is happening in each test tube and why?