

4. Briefly describe how soap or detergent work to clean your body or to clean other surfaces, such as dishes. Why are these agents (soap or detergent) needed in order to have thorough cleaning?

Name _____

Section _____

<h2 style="margin: 0;">Preparation and Properties of Soap</h2> <p style="margin: 0;">Experiment #6 Data & Report Sheet</p>

A-1. Describe the look and feel of the soap you have made, compared to the fat you started with.

A-2. How does your soap compare with the look and feel of commercial soap?

Table B1. Comparison of Properties of Soap vs Detergent

	Alkalinity test with pH indicator paper		Lathering and solubility	
	Color of test paper	Is it alkaline, neutral or acid	no Ca ²⁺	with Ca ²⁺
Soap				
Detergent				

B-1. What conclusion would you make with regard to the harshness of soap vs detergent on skin from the alkalinity test?

B-2. Compare the lathering power and solubility of soap vs detergent in the hard water (Ca^{2+} solution).

B-3. Would you expect soap or detergent to be a more effective cleanser (dissolving oils) in hard water? Explain.

B-4. Describe the oil spot on the filter paper after cleansing with soap vs detergent in water. Is there a noticeable difference? Which is the more effective cleanser in deionized water?

B-5. Describe any differences in the cleaning power of soap vs detergent in Ca^{2+} solution.