

Name: _____ Date: _____

Sudsy Cells Worksheet



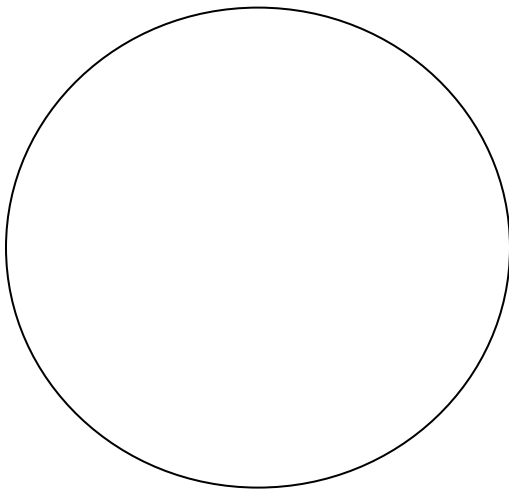
Type of Soap: _____

Pre-Lab Questions

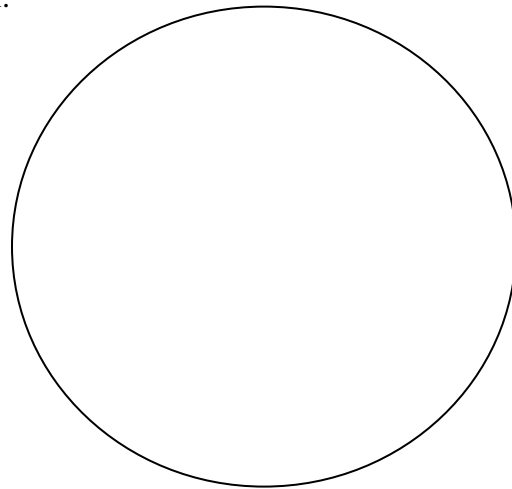
1. What is the control for your experiment?
2. Hypothesis:

Results

Draw a picture of the Petri dishes after incubation:



CONTROL



With SOAP

Number of colonies on your Petri dishes:

CONTROL: _____

With SOAP: _____

1. What **number** of colonies was removed by the soap? _____
2. What **percentage** of colonies was removed by the soap? _____

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Class Results Record the class results in the table below.

Groups	# Colonies Removed by Soap				
	Bar Soap	Liquid Hand Soap	Anti-bacterial Soap	Hand Sanitizer	Liquid Dish Soap
Groups 1-5					
Groups 6-10					
Groups 11-15					
Class average					
% Removal					

1. Which soap worked the best for removal of bacteria?

2. What are some sources of error that might have affected this experiment?

3. Engineers design different surfactants (soaps) for different situations. Using the soaps we tested today; write a design for a new soap for each of the following situations. You may mix soaps together in your new design.
 - For young children to use after playing on the playground.

 - To help clean up an oil spill of the coast of California.

 - For a doctor to use before a medical procedure.

4. Engineers also need to consider the effects that their products have on others. Think about the surfactants that you used today. What are some impacts those surfactants may have on the environment, animals or humans?

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