

Grade 8 Unit 3:Fluids STSE /25= % NAME:_____

LINK : The Animoto

Class:_____

http://animoto.com/play/ftFwfxwToAMKM6XqoMLrHA?utm_content=main_link

Task 1: [6 marks]

1. A) Why we use SOAP:_____
- B) Examples for using soap:
 - (i)_____
 - (ii)_____
2. A) Why we use DETERGENT:_____
- B) Examples for using DETERGENT:
 - (i)_____
 - (ii)_____

Task 2: [6 marks]

There are many additives in soaps. Pick any THREE and describe why they were introduced.

Builders	Anti-redeposition agents	Optical brighteners
Inert filler	Anti-corrosion agents	Perfumes
Enzymes		

CHOICE#1_____

CHOICE#2_____

CHOICE#3_____

Task 3: [6 marks]

A) What were two environmental concerns with early detergents?

(i) _____

(ii) _____

How has the detergent industry addressed these concerns?

Task 4: What new information did you learn about soap and detergents. Be specific by using examples. [1 mark]

Task 5: [6 marks]

Go to the following website to view the animation of how soap/detergents remove grease from a dish.

<http://intro.bio.umb.edu/111-112/111F98Lect/soapandoil.html>

NOTE: The red 'phobic' ends – hate water (get it...they have a phobia of water) and the blue 'phillic' ends – love water

This task requires you to draw and describe (with one or two lines) this animation in three phases.

Phase 1: Before the soap takes action

Phase 2: The phobic ends are now moving in place

Phase 3: All of the phobic ends are in place and the grease is surrounded.

Complete the following table showing how soap makes grease float. [6 marks]

	DRAWING of what is going on	Description of what is happening
PHASE 1		<hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>
PHASE 2		<hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>
PHASE 3		<hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>