

Do You Know Your Bubbles?

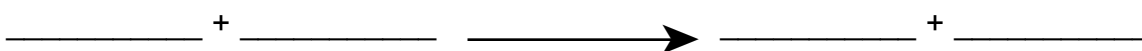
- What does the pH of a substance tell us?

- How would you define a neutral substance?

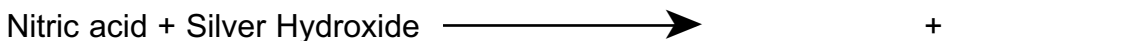
- In the pH scale below, mark out the pH values and the colour that a Universal Indicator would show with each pH.

pH Value																	
Colour with Universal Indicator																	
Description	Strong acid				Weak acid			Neutral	Weak alkali			Strong alkali					

- Complete the reactants and products of a neutralisation reaction in the general word equation below.



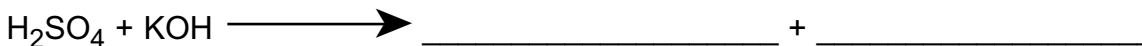
- Complete the word equation.



- Complete and balance the symbol equation.



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- What is the difference between an alkali and a base?



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- Explain simply how a bar of soap is made.

- Why do you think the fat and alkali are boiled?

- Look up definitions for the terms:

distillation

fractionation

and hydrogenation.

- What are the likely raw ingredients of most shower gels and shampoos?

- What is the advantage of using a surfactant rather than a soap?

- Why is making surfactants like making a cake?
