



Section 1: Key Vocabulary	
Key Word	Definition
Acid	Contains hydrogen ions (H ⁺), it will generally taste sour - has a pH lower than 7
Alkali	Contains hydroxide ions (OH ⁻), it generally feels soapy to touch - has a pH higher than 7. A base that is soluble in water
Base	A substance that reacts with an acid to neutralise it and produce a salt
Neutral	Neither acid nor alkali - has a pH of 7
pH Scale	This scale is used to show what colours indicate substances that are acidic, alkaline or neutral
Indicator	These turn different colours in acids, alkalis and neutral solutions
Universal Indicator	A common indicator that measures the full pH scale.
Neutralisation	When an acid and an alkali react to form a neutral solution
Corrosive	A corrosive substance, like hydrochloric acid, will eat away most things on which it is spilled
Dilute	A small number of acid or alkali particles are present in the solution
Concentrated	A large number of acid or alkali particles are present in the solution

Section 2: Quick Questions	
Why do we have hazard symbols?	Hazard symbols quickly and clearly relay information about dangerous chemicals
What hazard symbols would you expect to find on an acid?	Depending on their concentration, acids are either corrosive, harmful or irritants.
What are examples of common acids?	Hydrochloric acid, vinegar, citric acid (found in lemons)
What are examples of common alkalis?	Bleach, washing up liquid, toothpaste
How can you test the pH of a solution?	If you add universal indicator, it will change colour and you can compare it to the pH scale. You can use other indicators or a pH probe.
How does litmus paper show the pH?	Litmus paper is another indicator, either red or blue paper. They turn/stay red in acids, and turn/stay blue in alkalis. If neither changes colour, it is neutral
What is a neutralisation reaction?	A reaction when you react an acid and base together - they neutralise each other to form a neutral substance
What is the word equation for a neutralisation reaction?	acid + base → salt + water

Section 3: Helpful Diagrams

← ACID NEUTRAL BASE →

Concentrated Solution

Dilute Solution

Litmus Paper

Alkali

Acid

Neutral

Section 4: Video Links

<https://www.youtube.com/watch?v=cB2vSaalXg>
https://www.youtube.com/watch?v=0YR62F_QNKA
https://www.youtube.com/watch?v=lpM_VCMPFug