7F Acids and Alkalis

1. Hazards		
Hazard	Something that could cause	
	harm.	
Risk	The chance that a hazard will	
	cause harm.	
Jazard	Internationally agreed symbols	
azai u Symbols	representing the type of risk	
Symbols	from using a substance.	
	Dangerous to Environment	
<≝∠≻	Can cause long term damage to	
$\mathbf{\nabla}$	animal and plant life.	
	Тохіс	
	Poisonous and can cause death	
$\mathbf{\nabla}$	if taken into the body.	
\wedge	Corrosive	
L.S.	Attacks certain substances like	
	metals, stonework & skin.	
	Explosive	
	Heating may cause an explosion.	
	Flammable	
< 🖏 >	These substances catch fire	
	easily.	
~	Caution	
	similar to toxic/corrosive but	
\checkmark	less serious- may cause skin	
	irritation	
	Dangerous substances are	
Diluted	mixed with water to make them	
	less dangerous.	
2 Indicators		
2. multators		

2. Indicators		
	A substance that changes	
Indicator	colour in solutions of	
	different acidity/alkalinity.	
	An indicator made from a	
Litmus	type of lichen.	

Acid	Turns litmus indicator red.	
Alkali	Turns litmus indicator blue .	
Noutral	A substance that is neither	
Neutrai	acidic or alkaline.	
Red Cabbage	ed Cabbage Can be used as an indicator.	



4. Neutralisation				
	A reaction where an acid			
Noutralization	and alkali are mixed			
Neutraisation	together forming a neutral			
	substance.			
Chomical	A change in which one or			
Poaction	more new substance is			
Reaction	formed.			
Word	Used to model chemical			
Equation	reactions.			
	The starting substances-			
Reactants	written on left of word			
	equation.			
	The new substances made-			
Products	written on right of word			
	equation.			
Neutralisation	n General Word Equation			
Acid + alkali 🗦	→ salt + water			
Neutralisation	n Word Equation Example			
Hydrochloric a	acid + sodium hydroxide $ ightarrow$			
sodium chlori	de + water			
	Formed when acids and			
Salte	alkalis react. Different acids			
Saits	and alkalis will form			
	different salts.			
Sodium	The chemical name for			
Chloride	common/table salt.			
5 Neut	ralisation in Daily Life			
J. Neut	Any substance that			
Base	neutralises an acid forming a			
Dase	salt and water			
Alkali	A soluble base			
	Remedy for indigestion that			
Antacids	neutralise the stomach acid			
Antacid Word	Fauation Example			
Antacia word Equation Example				
\rightarrow magnesium chlorido + mator				
Contains bases that				
	contains bases tildt			
Toothpaste	meutianse acius ili your			

mouth from food that you

eat.

Bee Sting RemedyA bee sting, being acidic can be treated with a weak alkali like baking soda.Wasp Sting RemedyA wasp sting, being alkali, can be treated with a weak acid like vinegar.Cleaning MetalsAcids clean the rust off metals using a neutralisation reaction.Waste GasesAcidic waste gases from industries are sprayed with calcium hydroxide to neutralise them.		
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Acidic waste gases from Waste Gases industries are sprayed with calcium hydroxide to neutralise them.	ivietais	reaction.
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calcium hydroxide to neutralise them.	Wasta Gasas	industries are sprayed with
neutralise them.	waste Gases	calcium hydroxide to
		neutralise them.

Lesson	Memorised?
1. Hazards	
2. Indicators	
3. Acidity & Alkalinity	
4. Neutralisation	
5. Neutralisation in Daily Life	