

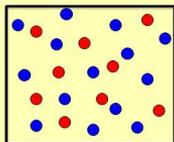
Finish the word equations:

Metal Carbonate + Acid \rightarrow Metal salt + Carbon dioxide + water

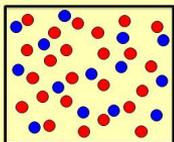
- Lithium carbonate + Hydrochloric Acid \rightarrow Lithium chloride + _____ + _____
- Copper carbonate + _____ \rightarrow Copper chloride + _____ + Water

Which box has the highest concentration of acid particles?

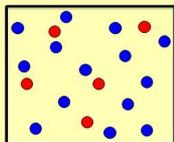
- = water particle
- = acid particle



A



B



C

What do these symbols mean?

1.



2.



Acids and Alkalis

Which acid produces which salt?

Name of Acid	Name of Salt Made
Hydrochloric	
	Sulfate
Nitric	

Label the pH scale to show: a) The acids b) The alkalis c) Where neutral is



Complete the equation and write in the pH numbers:



50cm³ ___
pH _____

+



50cm³ acid
pH _____

=



metal salt
pH _____

+



pH _____

What is an indicator?

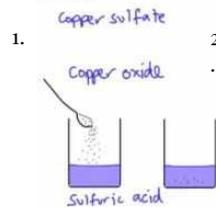
A substance that tells us whether something is acid or alkali

Complete the table:

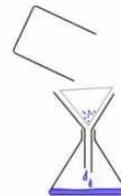
Name of Indicator	Colour with acid	Colour with alkali
Blue Litmus Paper		
Red Litmus Paper		
Universal Indicator		

Explain what is happening in each diagram:

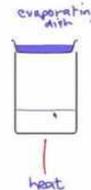
1.



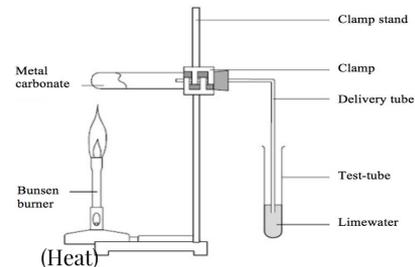
2.



3.

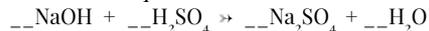


Write the equation to show the reaction happening (HINT: the limewater turns cloudy)



_____ \rightarrow _____ + _____

Balance the equation:



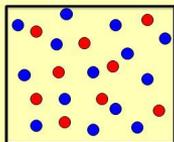
Finish the word equations:

Metal Carbonate + Acid → Metal salt + Carbon dioxide + water

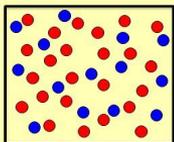
- Lithium carbonate + Hydrochloric acid → Lithium chloride + Carbon dioxide + Water
- Copper carbonate + Hydrochloric acid → Copper chloride + Carbon dioxide + Water

Which box has the highest concentration of acid particles?

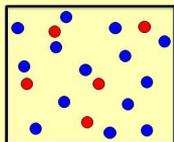
- = water particle
- = acid particle



A



B



C

What do these symbols mean?



Corrosive



Irritant

Acids and Alkalis

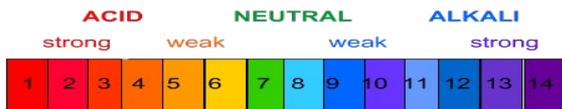
Which acid produces which salt?

Name of Acid	Name of Salt Made
Hydrochloric	Chloride
Sulfuric	Sulfate
Nitric	Nitrate

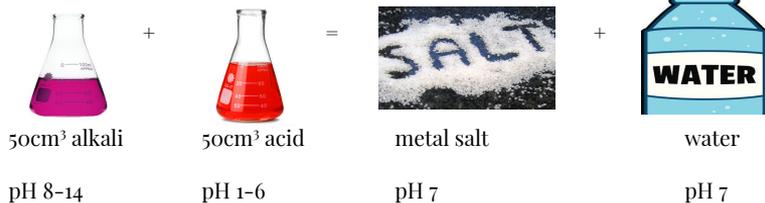
Balance the equation:



Label the pH scale to show: a) The acids b) The alkalis c) Where neutral is

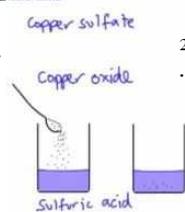


Complete the equation and write in the pH numbers:

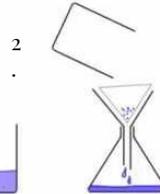


Explain what is happening in each diagram:

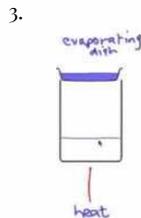
1. Insoluble salt added to excess in acid to Form a soluble salt



2. Excess salt filtered off



3. Water evaporated from Dissolved salt so crystals form



What is an indicator?

A substance that tells us whether something is acid or alkali

Complete the table:

Name of Indicator	Colour with acid	Colour with alkali
Blue Litmus Paper	Red	Blue
Red Litmus Paper	Red	Blue
Universal Indicator	Yellow, orange, red.	Blue, Purple

Write the equation to show the reaction happening (HINT: the limewater turns cloudy)

