



Acids and Bases

Science – Junior Cert

Quick Notes

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An Acid is a substance that **turns Blue Litmus Red**

Base is a substance that **turns Red Litmus Blue**

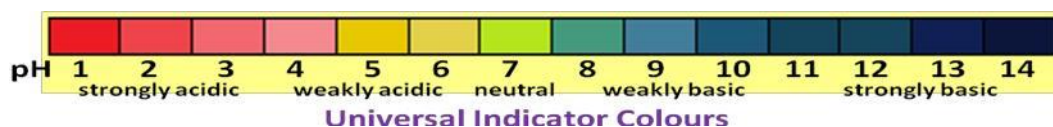
The pH Scale is a scale from **0 to 14** that tells how strong an acid or a base is

- Substances with a **pH of 7 are Neutral**
- Substances with a **pH of less than 7 are Acidic**
- Substances with a **pH of more than 7 are Basic**

An Indicator is a substance used **to show how acidic or basic a substance is**

Litmus Indicator is **red in acids and blue in bases**

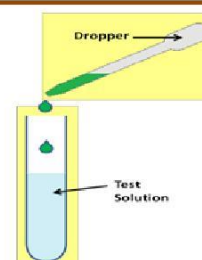
Universal Indicator tells us how acidic or basic a substance is by turning **a variety of colours**



Investigate the pH of a Variety of Materials using the pH Scale

- Take a sample of the substance to be tested
- **Disolve it in a small amount of water**
- Add a few drops of **universal indicator** and mix
- **Note the colour against the supplied chart** (see above)
- Record the pH

Results: See table below



Strong Acids	Weak Acids	Neutral	Weak Bases	Strong Bases
Sulfuric Acid	Vinegar	Pure Water	Toothpaste	Sodium hydroxide
Hydrochloric Acid	Lemon Juice	Alcohol	Baking Soda	Potassium hydroxide
Nitric Acid	Rainwater	Sugar solution	Soap	Ammonia solution
	Nettle sting	Salt Solution		

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