

Acids and Bases

10th Grade

The pH scale, what it measures, and the reaction that cancels both.



Acids release hydrogen ions in water; bases accept them. pH measures the concentration of hydrogen ions.

ACID
pH < 7

NEUTRAL
pH 7

BASE
pH > 7

- The scale is logarithmic — each step is ten times.
- Acids taste sour and react with metals to give hydrogen.
- Bases feel slippery; soluble ones are called alkalis.
- Acid + base → salt + water. This is neutralisation.
- Indicators change colour at particular pH values.

LOOK FOR IT

Stomach acid is about pH 2; soap is about pH 10.

Strong and concentrated are not the same. Strong means fully dissociated; concentrated means a lot per litre.