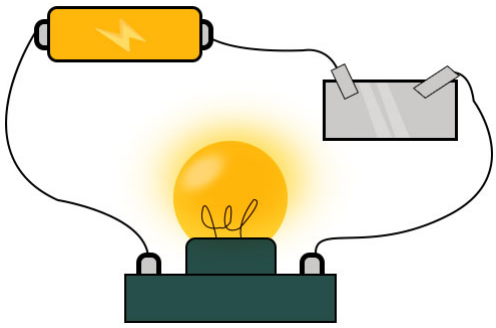
Reactions – Metals and Non-metals KEY LEARNING

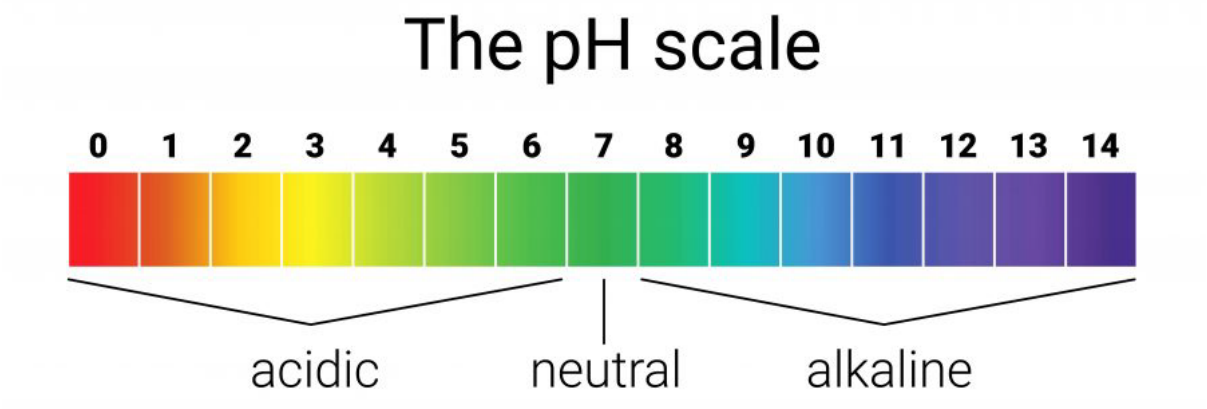
Metals are shiny, good conductors of electricity and heat and can be shaped.

Properties	Metals	Non-metals
Surface	Shiny	Dull
Conductor of Electricity	Good	Poor (except carbon)
Conductor of Heat	Good	Poor
Malleable	Can be shaped	Cannot be shaped
Ductile (pulled into wires)	Yes	No
Strength	High	Low
Melting/Boiling Point	High	Low



Reactions – Acids and Alkalis KEY LEARNING

pH 7 is neutral. It turns indicators green.
A pH below 7 is acidic. It turns indicators red.
A pH above 7 is alkali. It turns indicators blue.



Mixing an acid and alkali produces a chemical reaction called neutralisation. A chemical called a salt and water are made.

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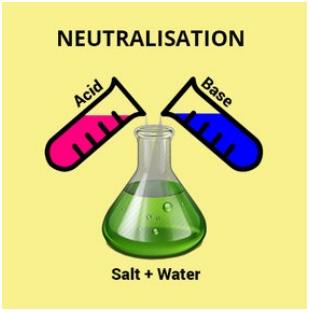

Keywords

pH: Scale of acidity and alkalinity from 0 to 14.
Indicators: Substances used to identify whether unknown solutions are acidic, alkaline or neutral.

Key Learning Questions	Year 7 Reactions
Metals are used for jewellery and spoons. Why?	Shiny
Are metals or non-metals better conductors?	Metals
Metals can be shaped. Name this property?	Malleable.
What pH range and colour is acidic?	0 to 6
	Red
What pH range and colour is alkaline?	8 to 14
	Blue/Purple
The pH scale goes from 0 up to which number?	14
What is the pH and colour of a neutral solution?	7
	Green