

## Unit Overview – Reactions 1

Target grade for tests:

### You will learn about:

- Metals and non-metals
- Types of reactions
- Acids, alkalis and indicators

### You will be able to:

- estimate risk
- collect data
- devise questions and test hypothesis
- plan variables



Key learning points		Key Words
Explain the uses of metals and non-metals based on their properties.		
Describe the reactions between metals with acids using word equations and particle diagrams.		
Compare the reactivity of different metals.		
Explain displacement reactions using equations and particle diagrams		
Describe oxidation reactions using word equations and particle diagrams.		
Describe what acids and alkalis are and identify the hazards they pose.		
Compare different indicators.		
Describe what a pH scale measures.		
Recall the neutralisation equation.		
Design an investigation to compare the effectiveness of indigestion remedies.		
Skill: collect data, devise questions, plan variables, test hypothesis, estimate risk.		

**Links to other subjects:**

**SMSC**

- Evaluating risks.

**Numeracy**

- Drawing and interpreting graphs
- Calculating a mean
- Reading a scale and recording measurements

**Literacy**

- Construct descriptions and explanations.
- Identify and describe evidence.

**Key Words**

Conduct  
Ductile  
Malleable  
Sonorous  
Reactivity  
Displacement  
Oxidation  
Combustion  
Base  
Acid  
Hydrochloric acid  
Alkali  
Sodium hydroxide  
pH Scale  
concentration  
indicator  
litmus  
universal  
indicator  
neutralisation  
titration