Chemistry KS3

King's Academy Prospect

Mastery in Year 9

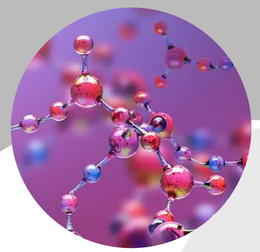
- Demonstrate accurate and appropriate knowledge and understanding and apply these to some familiar and unfamiliar contexts.
- Develop some logical descriptions, which includes some accurate and relevant detail.
- Use appropriate mathematical skills to perform calculations.
- Interpret qualitative and quantitative data and draw conclusions supported by some evidence
- Suggest improvements to experimental methods, and comment on the accuracy of scientific conclusions.

Mastery in Year 8

- Demonstrate relevant scientific knowledge and understanding and begin to use scientific terminology regularly.
- Perform calculations.
- Draw simple conclusions from qualitative or quantitative data.
- Make comments relating to experimental methods.

Mastery in Year 7

- Demonstrate some relevant scientific knowledge and understanding and begin to use scientific terminology regularly.
- Perform some basic calculations.
- Draw simple conclusions from qualitative or quantitative data.
- Make basic comments relating to experimental methods.



BONDING STRUCTURE AND THE PROPERTIES OF MATTER?

What is the structure of matter?

QUANTITATIVE CHEMISTRY

Why do we need to calculate quantities of matter?

TRANSITION

YEAR 9

ATOMS AND THE PERIODIC TABLE

How are elements arranged and why?

EARTH – CLIMATE AND EARTH RESOURCES

How are materials moved and cycled? What impact does this have?

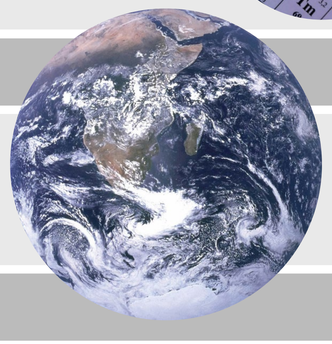
YEAR 8

MATTER – PERIODIC TABLE AND ELEMENTS

How are elements arranged and why?

REACTIONS – CHEMICAL ENERGY AND TYPES OF REACTIONS

How does energy transfer between organisms within an ecosystem?



EARTH – STRUCTURE AND UNIVERSE

What is the structure of our Earth and how does it fit in the Universe?

YEAR 7

MATTER – PARTICLE MODEL AND SEPARATING MIXTURES

What is everything made of?

REACTIONS – METAL REACTIONS AND ACIDS/ALKALIS

How do different types of materials interact with each other?

ASPIRE • BELIEVE • ACHIEVE