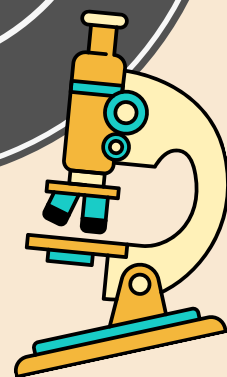




Year 10 Science LTP



Autumn 1

Topic: Cell Biology / Atomic structure and the Periodic table

Why it's taught: To understand the building blocks of life and how cells function.
To explain the properties of elements and how their atomic structure determines chemical behavior.



Autumn 2

Topic: Energy / Organisation

Why it's taught: To understand how energy is transferred, stored, and conserved in physical and biological systems.
To learn how the structures of organisms are organised and adapted to carry out life processes.



Spring 1

Topic: Bonding, Structure and the Properties of Matter / Electricity

Why it's taught: To explain how atoms join together, how this affects the structure of substances.
To understand how electrical circuits work.



Spring 2

Topic: Infection and Response / Quantitative Chemistry

Why it's taught: To understand how diseases spread, how the body defends itself, and how we can prevent and treat infections.
To calculate the amounts of substances in reactions and apply maths to real chemical processes.



Summer 1

Topic: Bioenergetics / Chemical Changes

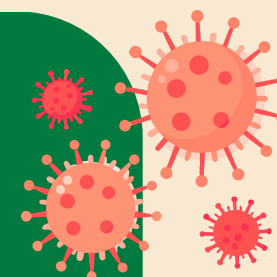
Why it's taught: To understand how organisms transfer and use energy through processes like photosynthesis and respiration.
To explain how substances react, why reactions happen, and how these changes are used in the real world.



Summer 2

Topic: Energy Changes / Rate and Extent of Chemical Change

Why it's taught: To understand how energy is transferred during chemical reactions.
To explain how fast reactions happen, what affects them, and how far they go.



Learn

Achieve

Together