

GCSE Science Learning Journey



**Revision is the name of the game...
Preparation for the final exams continues**

in Term 3



Ecology

We learn how animals and plants adapt and use energy in a food web and what happens if things change within an ecosystem.

Life Cycle Assessments and the Earth's Resources

We find out how chemistry works in the atmosphere and how pollution can tip the balance. We also learn how to identify chemicals and reactions.

Electromagnetism/ Space (Separate Science only)

We make our own electricity with magnets and wires and learn how our universe started with a big bang



Term 2:

Term 1:



Term 1:

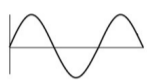
Regulatory Systems/ Inheritance

We look at how the body maintains its optimum conditions. Specifically looking at how the nervous and hormonal systems work.

Rates of Reaction/ Hydrocarbons/ Atmosphere We have fun with chemicals and find out what makes a reaction go quicker or slower.

Forces/ Waves

We find out the invisible waves in light and how light and sound waves have similar things in common.



Term 3:

Biological Processes / Biological Cycles

We learn about the processes of Photosynthesis and Respiration and why these are so important in maintaining life.

Energy Changes/ Chemical Analysis We find out why hand warmers work and why some chemical reactions produce heat whilst others take it away.

Forces

We learn how forces move and change objects and how things can speed up and slow down.



Term 2:

Disease and Immunity

We discover what happens to our bodies when we get an infection and how science makes us better.

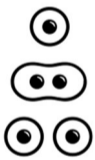
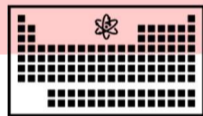
Measurements and Equations/ Reactions and Reactivity

We learn how to calculate the mass of the smallest substances. We also react metals with acids and learn their patterns. We also find out if electricity can split compounds...

Nuclear Radiation/ Electricity

We find out why electricity can be useful and also shocking! We also learn how we discovered atoms and why they can be dangerous but pushed together could be our energy solution!

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Term 1:

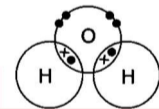
Human Body Systems

We learn how the single cell is the key ingredient to how our body systems pump blood, digest our food and to simply breathe.

Periodic Table / Bonding We learn how the atom is the building block for chemicals and how they connect creates different elements and reactions

Energy Calculations / Density and Pressure

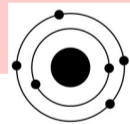
We find out what happens when you try and destroy energy...plus how renewable energy and non-renewable are used to solve our energy crisis.



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In Year 9 we build the foundations for understanding the world through the specific disciplines of biology, chemistry and physics. We build our confidence with investigations, learning to master the methods and processes in readiness for our next journey into KS4.

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