

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.



Atmosphere/ 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:

Regulatory Systems/ Inheritance

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

Chemical Changes/ Rates of Reaction/ Hydrocarbons 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 1:



Term 3:

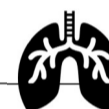
Biological Processes

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

Reactions and Reactivity 2 We react metals with acids and learn their patterns. We also find out if electricity can split compounds...

Electricity

We find out why electricity can be useful and also shocking!



Term 2:

Disease and Immunity

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

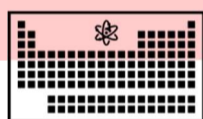
Measurements and Equations/ Reactions and Reactivity 1

We learn how to calculate the mass of the smallest substances.

Density and Pressure /Nuclear Radiation

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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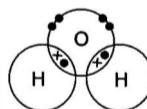
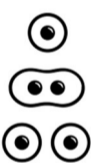
Term 1:

Cells/ 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

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.



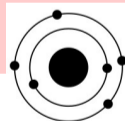
1 Mole



6.02×10^{23}



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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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Due to the way Science lessons are timetabled some units may cross over different terms.