Headlands School

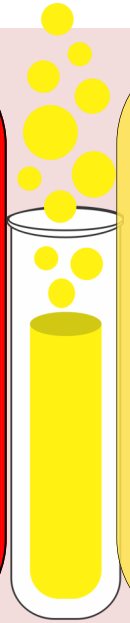
Subject Information

Year 9 Science

Overview: This is the last year of KS3 and is the bridge between KS£ and GCSE. You will be pushed to explain what you see in more detail then ever before.

So we are going the reacp it all and make sure you really KNOW IT!. We will be using practical to embed the knowledge but alsocover all the Application skills that you need to succeed at GCSE.

We Llink the KS£ knowledge with the GCSE topics this year are you ready to smash it.

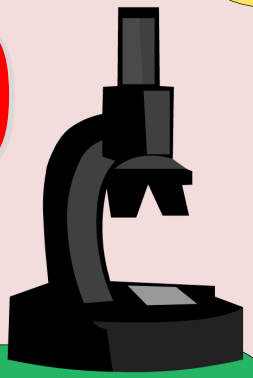


Term 1:

In Biology you will be looking cells and the reactions that take place in them along with the organisms response to these reactions. Along with looking at organs within organisms so hearts and lungs and leaves and stems in plant. You will also revisit how our body fights infections

In Chemistry you look at Atoms, and learn more about how we know what it looks like and the internal particles found. Allowing you to compare an atom from one element with another. You will also look at Acids and Bases and their reactions

In Physics we focus on Energy and how it is transferred from one form to another either usefully or wastefully allowing us to calculate efficiency. =Moving into Particle theory and Thermal energy and electrical energy transfers



Term 2:

In your second term;

Biology you will be looking at how the body maintains perfect conditions along with inheritance and ecosystems.

In Chemistry you look at lots of different chemical reactions explaining what is happening in terms of the atoms involved. You will also look at the Earth in terms of structure , atmosphere and resources

Physics looks at Forces and how we use them to explain motion moving onto Waves and how energy is transferred **via radiation** and how we can harness it.

Term 3:

Biology – Cell Biology - You learn about the cell the basic unit of all life forms - looking at structural differences and cell division and research into Stem cells

Chemistry - Atoms and periodic table - You learn about the Atom and the historical development of the periodic table and models of atomic structure learning how scientific ideas and explanations develop over time as new evidence emerges.

Physics – Energy - we focus on how we store and transfer energy. Using calculations to explain efficiency and costs involved as well as looking at the planet's energy resources