



**Overview:** During their second year at Headlands, students will continue to develop a wide range of skills in Science. They will be starting to conduct their own investigations into the world with a focus on how we control experiments to ensure results are valid. The students will look at the energy conversions in living organisms and how they interlink with the ecosystem. Meanwhile they will stretch their chemistry skills in applying the periodic table to how materials behave. They will then look at force and motion on Earth and in Space

# Year 8 Science

## Term 1:

Continuing from Year 7 you will be taught a Biology, Chemistry and Physics topic before doing a Unit test. So ....

In Biology you will be looking at Respiration and Photosynthesis in detail and how these two reactions are the cornerstones of life. You will learn skills on how to study an ecosystem and the relationships between the organisms in it.

In Chemistry you will be looking in detail at how the modern periodic table became and how it is used as the dictionary for all Chemists.

In Physics you will look at the very small (particles) and how they work to give a material its properties and what affects those properties.

## Term 2:

In your second term, you will again study each of the three sciences. In Biology you will learn about ecosystems in detail and how organisms adapt and evolve to suit their environment.

In Chemistry the focus will be linking the elements you have learned about to the Earth and how these elements are found in our planet and how the Earth itself evolved.

In Physics the topic is Forces and then how they work to create Motion. This applying Newton's Laws time

## Term 3:

By your third and final term, you will be moving towards GCSE and starting to applying your Keystage3 knowledge at the higher level.

In Biology you will look at how Inheritance happens and answer questions about why we look like our families but don't necessarily behave like them.

The chemistry topic is all about materials and how we use them based on their properties or even how we can create them from existing materials to suit a new situation. Whilst in Physics you get to study Space.

