

## Year 10 Separate Science

### What will I learn?

In your Biology lessons you will cover three modules: **Bioenergetics, Homeostasis and Response and Ecology**. In these topics you will learn about the fundamental processes that happen in cells and how your body responds to the external environment. In Ecology you will learn about organisation with ecosystems and biodiversity.

In your Chemistry lessons you will cover six modules: **Chemical Economics and The Periodic Table, Bonding, Structure and the Properties of Matter, Quantitative Chemistry, Chemical Changes, Energy Changes, Rate and Extent of Chemical Change**. In these topics you will learn how to predict amounts in chemical reactions and about the patterns of the properties of matter. You will also learn how to calculate mass in chemical reactions and about the importance of energy in chemical reactions and the concept of the mole.

In your Physics lessons you will cover three modules: **Energy, Waves and Atomic Structure**. In these topics you will learn how to calculate energy changes, the nature of waves and their behaviour, and the basics of radioactivity.

### How will I be assessed?

Throughout Year 10, you will complete a range of short assessments and homework tasks. These will take place in lesson time and will develop your ability to tackle the types of questions asked on your exam.

You will complete a mid-module assessment and an end-of-module assessment for each of the modules completed in Year 10. There will also be a 75 minute mock exam completed in the Summer term.

### How will I be taught?

GCSE Separate Science will lead to three separate GCSE qualifications. Your lessons will be a combination of teaching methods supplemented by practical activities that cover the requirements of the course. They will also provide you with the context that allows you to see how the learning is important for understanding the world around you.