

SMITH'S WOOD LEARNING JOURNEY

Y10 Science



Ecology



Assessment

During the Summer term, we'll cover some exciting science topics! We'll start with Inheritance, learning about how traits are passed down from one generation to the next. Next, we'll explore Variation, understanding the differences within and between species. Then, we'll dive into Evolution, discovering how species change over time. We'll also study Ecology, exploring the relationships between organisms and their environments. Finally, we'll prepare for the end of year assessment. Get ready for an engaging and informative term!



Inheritance, variation and evolution



SUMMER TERM

Energy changes



Homeostasis and response

During the Spring term, we'll explore several fascinating science topics! We'll begin with Quantitative Chemistry, learning about the measurements and calculations involved in chemical reactions. Next, we'll study Chemical Changes, focusing on electrolysis and how substances are broken down using electricity. Then, we'll dive into Energy Changes, exploring exothermic and endothermic reactions. Finally, we'll look at Homeostasis and Response, understanding the nervous system and the endocrine system and how they help maintain balance in the body.



Chemical changes

Quantitative chemistry



SPRING TERM

Atomic structure



Atomic Structure and the periodic table



Bonding, structure and the properties of matter

During the Spring term, we'll dive into some intriguing science topics! We'll start with Energy Changes in Physics, learning about how energy is transferred and transformed. Next, we'll revisit Electricity, exploring more about circuits and electric current. Then, we'll study the Particle Model of Matter, understanding how particles behave in different states. Following this, we'll discover the basics of atoms and how elements are organised. Finally, we'll cover Bonding, Structure, and the Properties of Matter, exploring how atoms bond and the characteristics of different materials. Get ready for an exciting and informative term!

Particle model of matter



Electricity



Energy

AUTUMN TERM