

The Samworth Church Academy

Curriculum Journey: Biology

Year 7

Autumn	<i>Cells and Movement</i> Students will learn the building blocks of life and how these building blocks lead to our human body and movement.
Spring	<i>Variation and Reproduction</i> Students will look at how humans reproduce and how this leads to variations in humans, as well as other organisms.
Summer	<i>Interdependence and Plant Reproduction</i> Students will learn about how plants reproduce, as well as the role plants play in a larger setting: habitats. Students explore these habitats in detail.

Year 8

Autumn	<i>Digestion & Breathing</i> Students looking at the role of systems in the body, including gas exchange and the digestive system.
Spring	<i>Respiration & Photosynthesis</i> Students will explain these chemical processes and the roles they play in organisms.
Summer	<i>Evolution and Inheritance</i> Students will explain how characteristics are passed from parents to offspring and the role of DNA.

Year 9

Autumn	<i>Cells and Transport</i> Students will look at cell structure in detail, along with how substances move in and out of cells.
Spring	<i>Disease</i> Students will look at how diseases can be transmitted, as well as types of diseases and how the body defends itself.
Summer	<i>Ecology</i> Students look at how an ecosystems are organised, how materials cycle through an ecosystem, and how to monitor the health of an ecosystem.

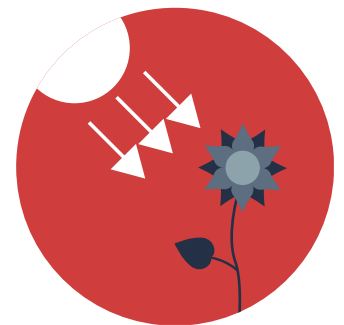
Year 10

Autumn	<i>Organisation and Digestive System</i> Students will explore the parts of the digestive system, the role of food molecules, and the role enzymes play in our body.
Spring	<i>Organisation and Digestive System</i> Continued from previous term.
Summer	<i>Energetics</i> Students will look at how respiration and photosynthesis link to the organisation of plants and animals.

Year 11

Autumn	<i>Homeostasis</i> Students look at how our bodies maintain the internal conditions, including our nervous system, endocrine system, and reproductive system.
Spring	<i>Genetics</i> Students will explain the mechanism of inheritance and explain how this links to variation and evolution.
Summer	<i>Examination</i> Students will test their knowledge of their five years in their exams.

GCSE



Year 12

Autumn	<i>Biological molecules & immune response</i> Learning the biological molecules, those that make up everything, we then look at a cell in more detail. We then use this knowledge to learn about enzyme
Spring	<i>Cell transport and exchange, and DNA and mass transport</i> Looking in detail how cells exchange substance in both plants and animals.
Summer	<i>Biodiversity</i> Students will explore the number of species and organisms and the variation of characteristics, including calculations to support this.

Year 13

Autumn	<i>To be confirmed</i>
Spring	<i>To be confirmed</i>
Summer	<i>To be confirmed</i>



A Level

Full Overview

Biology

Year 7

Autumn	Spring	Summer
Cells and movement Students will learn the building blocks of life and how these building blocks lead to our human body and movement.	Variation and Reproduction Students will look at how humans reproduce and how this leads to variations in humans, as well as other organisms.	Interdependence and plant reproduction Students will learn about how plants reproduce, as well as the role plants play in a larger setting: habitats. Students explore these habitats in detail.

Full Overview

Biology

Year 8

Autumn	Spring	Summer
Digestion & breathing Students looking at the role of systems in the body, including gas exchange and the digestive system.	Respiration and photosynthesis Students will explain these chemical processes and the roles they play in organisms.	Evolution and inheritance Students will explain how characteristics are passed from parents to offspring and the role of DNA.

Full Overview

Biology

Year 9

Autumn	Spring	Summer
Cells and transport Students will look at cell structure in detail, along with how substances move in and out of cells.	Disease Students will look at how diseases can be transmitted, as well as types of diseases and how the body defends itself.	Ecology Students look at how an ecosystems are organised, how materials cycle through an ecosystem, and how to monitor the health of an ecosystem.

Full Overview

Biology

Year 10

Autumn	Spring	Summer
Organisation and digestive system Students will explore the parts of the digestive system, the role of food molecules, and the role enzymes play in our body.	Organisation and digestive system (continued) Students will explore the parts of the digestive system, the role of food molecules, and the role enzymes play in our body.	Energetics Students will look at how respiration and photosynthesis link to the organisation of plants and animals.

Full Overview

Biology

Year 11

Autumn	Spring	Summer
Homeostasis Students look at how our bodies maintain the internal conditions, including our nervous system, endocrine system, and reproductive system.	Genetics Students will explain the mechanism of inheritance and explain how this links to variation and evolution. Genetics - students will explain the mechanism of inheritance and explain how this links to variation and evolution.	Students will test their knowledge of their five years in their exams.

Full Overview

Biology

Year 12

Autumn	Spring	Summer
Biological molecules & immune response Learning the biological molecules, those that make up everything, we then look at a cell in more detail. We then use this knowledge to learn about enzyme functioning and DNA.	Cell transport and exchange, and DNA and mass transport Looking in detail how cells exchange substance in both plants and animals.	Biodiversity Students will explore the number of species and organisms and the variation of characteristics, including calculations to support this.