



### Overview

Students will build on their knowledge gained in year 7,8 and 9 to develop and deepen their understanding of biological concepts such as cell structure, transport (including diffusion, osmosis and active transport) and digestion and enzymes.



### Term 1

Students will start by revisiting the concepts covered in year 9 about cell structure and function and transport. They will recap and develop their knowledge on the heart, blood, digestion and enzymes. Students will develop their practical skills and investigate food tests, microscopes and enzyme reactions. Students will move on from organs of the human body to infections and the body's response to this.

## Year 10

# Biology



### Term 3

Students will continue to deepen their understanding of plants and animals with Ecology. Students investigate interdependence between organisms and how different factors might affect the survival of a particular species. Students will get the opportunity to work outside and conduct sampling techniques in different environments.



### Term 2

Students will continue to build on the knowledge they have gained so far about transport in organisms, which will lead on to looking in more depth at aerobic and anaerobic respiration and photosynthesis. Students will investigate the effect of light intensity on photosynthesis and test leaves for the presence of starch.