

Biology

Microbiology:
Using our basic knowledge of cells, we will learn more about the structure and function of specialised cells. There will be plenty of opportunity to have hands on experience using microscopes and preparing samples.



Challenge :
Create a poster or magazine article detailing the different microscopes, how they work and what they look like.

Stretch: give details on how to prepare a sample to view under a light microscope.



Check point
A topic assessment testing knowledge, of the microbiology topic

Transport:
Learn the basics about how substances like glucose, oxygen and carbon dioxide are transported in animals and plants.

Challenge:
Research an experiment to demonstrate osmosis in plant tissue.



The Autumn line

The human body II:
Continue to learn about the nervous system and the endocrine system

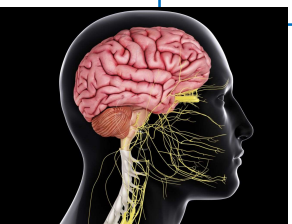
Check point
Exam week: Knowledge will be tested on topics learnt so far (Microbiology, Transport and human body.

Challenge :
Create a model of the Heart or Digestive track.

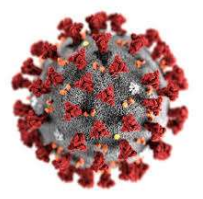


The human body II:
Gain a secure understanding of all the body systems. Starting with the digestive and circulatory systems.

The Spring line



Cells KS4:
Build on ks3 knowledge and learn more about cells division and focus on microscopy calculations



Infection and response KS4:
Learn about vaccinations, drug trials and mono clonal antibodies.

Challenge Write an article about the Covid Pandemic.

Let future generations know what happened, what is what like and how we got out of it.

Include you knowledge of communicable disease, immune response and vaccinations.

Check point
Assessment testing your knowledge and skills from Ks4 topics, Cells and Infection.

The Summer line

