

# KS3 CURRICULUM: SCIENCE (YEAR 9) AQA TRILOGY COMBINED SCIENCE –

## Overview

In Science you will learn about:

- The resources that we can get from our planet and how we can look after our planet and increase biodiversity.
- The different specialised cells in animals and plants and how they multiply. What stem cells are and the ethical and medical issues that surround them.
- The structure of an atom and the layout and development of the periodic table.
- Different types of energy and the formula for calculating them. How to reduce energy loss inside homes and how we can use more renewable energy.

## TRANSITION YEAR

	Focus / Topic	Knowledge & Skills	Assessment
Autumn 1	B15 Adaptations, interdependence, and competition. B16 Organising an ecosystem	Adaptations that animals and plants have to help them survive and compete against each other. What human characteristics are caused by our genetics, and what is caused by our environment.	B15 End of topic test. B16 End of topic test.
Autumn 2	B17 Biodiversity and ecosystems C1 Atomic structure	Why it is important for us to increase biodiversity on our planet. Balancing chemical equations and the history of the atom.	B17 End of topic test. C1 End of topic test.
Spring 1	C2 The periodic table	Knowledge of ions, isotopes and development of the periodic table.	C2 End of topic test.
Spring 2	B1 Cell structure and transport B2 Cell division	Function of microscopes and using them correctly. Understanding of how cells multiply and what stem cells are.	B1 End of topic test. B2 End of topic test.
Summer 1	P1 Energy	Different energy stores and energy transfers. How to calculate the efficiency of an appliance.	P1 End of topic test.
Summer 2	P3 Energy resources	Different methods of getting energy from renewable and non-renewable sources.	P3 End of topic test.

### Further Information

Chace GCSE Science website:

[https://sites.google.com/s/1BtvyrZrxIRC1edvS2polc56NnbGMSmfh/p/1Q\\_QYKtQJGkB2vAWUIxIJQyHyyE7Ce\\_L7/edit?safe=vss](https://sites.google.com/s/1BtvyrZrxIRC1edvS2polc56NnbGMSmfh/p/1Q_QYKtQJGkB2vAWUIxIJQyHyyE7Ce_L7/edit?safe=vss) Seneca:

<https://www.senecalearning.com/>

Kerboodle: <https://www.kerboodle.com/users/login>

BBC Bitesize: <https://www.bbc.com/bitesize/examspecs/z8r997h>

