

Biology Year 9	
Autumn 1 (September – October) to Autumn 2 (October – December)	Inheritance and evolution This topic encourages students to see how biology is related to them through the study of variation in their class and humans' part to play in preserving biodiversity. It builds on middle school learning about basic cell structure, specifically the role of DNA. Later in the topic we study evolution to introduce a topic that will be developed in key stage 4.
Spring 1 (January – February), Spring 2 (February – March) and Summer 1 (April – June)	Cell division and transport This topic starts GCSE content and builds on key stage 3 cells knowledge. It covers fundamental principles of biology required before organisation topic.
Summer 2 (June – July)	Organisation in animals- Circulatory system Triple Science Students choosing Triple Biology will look at how cells divide to create more cells, as well as learning what stem cells are. All Students (Combined /Triple) In this topic we move from the microscopic scale of cells to the macroscopic scale of organs. We will examine the organs and tissues of the circulatory system, considering normal function as well as a state of disease.

Chemistry Year 9	
Autumn 1 (September – October)	Chemical reactions This topic includes lots of practical opportunities and so supports the development of practical skills in a lab. It builds on many areas of study from middle school including the pH scale, the test for hydrogen, word equations and provides opportunity to build on prior learning throughout.
Autumn 2 (October – December) to Spring 1 (January – February)	Energy in chemical reactions This topic starts GCSE content and builds on KS3 understanding. It includes particle theory, reactivity of metals and energy changes in reactions including bond energy calculations.
Spring 2 (February – March) to Summer 1 (April – June)	Atomic structure and the periodic table This topic covers the foundation knowledge that underpins the rest of GCSE science. Follows recap of the idea of particles in previous topic.

Year 9 Physics	
Autumn 1 (September – October) to Autumn 2 (October – December)	Space This topic provides an opportunity for all students to study our solar system and the universe. It develops their appreciation of the scale of physics and how it affects their lives. It provides a range of skills development opportunities such as graph practice and simple calculations and students will undertake a small research project.
Spring 1 (January – February) to Spring 2 (February – March) & Summer 1 (April – June) to Summer 2 (June – July)	Energy This topic covers one of the most fundamental ideas in physics and provides students the opportunity to recap energy transfers such as electric current, forces and heat from previous KS3 content. It will provide an understanding of energy as the basis of all physics and how it links to each topic at key stage 4.