

Half term	Unit Title	Description
Sept - Oct	B1 Cell Biology	This unit explores how structural differences between types of cells enables them to perform specific functions within the organism. It also looks at the development of stem cell technology.
Nov - Dec	C1 Atomic structure	The periodic table provides chemists with a structured organisation of known chemical elements from which they can make sense of their physical and chemical properties. This unit explores the development of the table and the structure of the atom.
Jan	P1 Energy	The stores of energy are explored in this unit as well as how energy can be transferred from one form to another. Students learn about equations linking energy to various other properties and also gaining an understanding of issues relating to insulation and efficiency of energy use.
Feb - March	B2 Organisation	This unit explores the human digestive system and respiratory system and are linked to the circulatory system. Plant transport systems will also be reviewed.
April	C9 Chemistry of the atmosphere	The Earth's atmosphere is dynamic and forever changing. The causes of these changes are sometimes man-made and sometimes part of many natural cycles. The problems caused by increased levels of air pollutants require scientists and engineers to develop solutions that help to reduce the impact of human activity.
May	P2 Electricity	In this unit, students learn the principles of electricity. They will look at electric circuits, properties of components such as resistors and diodes, as well as gaining an understanding of how the National grid distributes electricity around the U.K
June	B7 Ecology	In this unit we will explore how humans are threatening biodiversity as well as the natural systems that support it. We will also consider some actions we need to take to ensure our future health, prosperity and well-being.
July	C10 Using Resources	Industries use the Earth's natural resources to manufacture useful products. In order to operate sustainably, chemists seek to minimise the use of limited resources, energy consumption, waste and environmental impact in the manufacture of these products.