

Half term	Unit Title	Description
Sep	B6 - Evolution	In this section we will discover how the number of chromosomes are halved during meiosis and then combined with new genes from the sexual partner to produce unique offspring. Gene mutations occur continuously and on rare occasions can affect the functioning of the animal or plant.
Oct	C6 - Rates of reaction	This topic looks at the factors that affect the rate of a reaction. Students explore this practically and develop an understanding of the impact of surface area, temperature and concentration on the rate of a reaction
Nov - Dec	P5 - Forces 2	Engineers analyse forces when designing a great variety of machines and instruments, from road bridges and fairground rides to atomic force microscopes. Anything mechanical can be analysed in this way. Recent developments in artificial limbs use the analysis of forces to make movement possible.
Jan	C4 - Chemical changes	
Feb	C5 - Energy changes	
March	P6 - Waves	Wave behaviour is common in both natural and man-made systems. Waves carry energy from one place to another and can also carry information. Designing comfortable and safe structures such as bridges, houses and music performance halls requires an understanding of mechanical waves.
April	C8 - Chemical analysis	This unit explores a range of techniques to analyse chemicals and make links to the atomic structure unit
April	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.