



	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 11	<p>Topic: B13 Reproduction</p> <p>Types of reproduction Cell division DNA and the genome Inheritance Genetics Genetic screening</p> <p>Topic: C9 Crude oil and fuel</p> <p>Hydrocarbons Fractional distillation of oil Burning hydrocarbons Cracking hydrocarbons</p> <p>Topic: C12 Chemical analysis</p> <p>Pure substances and mixtures Analysing chromatograms Testing for gases</p> <p>Topic: P6 Molecules and matter</p> <p>Density States of matter Changing state Specific latent heat Internal energy Gas pressure and temperature</p>	<p>Topic: B14 Variation and evolution</p> <p>Evolution by natural selection Selective breeding Genetic engineering</p> <p>Topic: C13 The Earth's atmosphere</p> <p>History of our atmosphere Our evolving atmosphere Greenhouse gases Global climate change Atmospheric pollutants</p> <p>Topic: P7 Radioactivity</p> <p>Atoms and radiation Discovery and changes in the nucleus Alpha, beta and gamma radiation Activity and half life Nuclear radiation in medicine(T) Nuclear fission/fusion(T) Nuclear issues (T)</p>	<p>Topic: B15 Genetics and evolution</p> <p>Extinction Antibiotic resistance bacteria Classification</p> <p>Topic: B16 Adaptation, interdependence and competition</p> <p>The importance of communities Organisms in their environment Distribution and abundance Competition in plants and animals Adapt and survive Adaptation in plants and animals</p> <p>Topic: C14 The Earth's resources</p> <p>Finite and renewable resources Water safe to drink Treating waste water Extracting metals from ores Life cycle assessments Reduce, reuse, recycle</p> <p>Topic: C15 Using our resources</p> <p>Rusting Alloys Composites The Haber process</p> <p>Topic: P8 Forces in balance</p> <p>Vectors and scalars Resultant forces Moments and levers Centre of mass Parallelogram of forces</p> <p>Topic: P9 Motion</p> <p>Speed and distance-time graphs Velocity and acceleration Velocity-time graphs Analysing motion</p>	<p>Topic: B17 Organising an ecosystem</p> <p>Feeding relationships Materials recycling The carbon cycle</p> <p>Topic: B18 Biodiversity and ecosystems</p> <p>The human population explosion Air, land and water pollution Deforestation and peat destruction Global warming Maintaining biodiversity</p> <p>Topic: P12 Wave properties</p> <p>The nature and properties of waves Reflection and refraction</p> <p>Topic: P13 Electromagnetic waves</p> <p>The electromagnetic spectrum Light, infrared, microwaves and radio waves Communications UV waves, x-rays, and gamma rays X-rays in medicine</p> <p>Topic: P15 Electromagnetism</p> <p>Magnetic fields of electric currents The motor effect</p>		