

Science Entry Level Certificate (Year 10-11)	Year 10 Autumn 1	Year 10 Autumn 2	Year 10 Spring 1	Year 10 Spring 2	Year 10 Summer 1	Year 10 Summer 2
Topics (approx. 6hrs teaching per topic)	<p>Biology: Fooling your senses – sight, smell, taste, touch and reflex reactions</p> <p>Chemistry: CSI plus – forensic science</p> <p>Physics: Pushes and pulls – forces and Newton’s laws of motion</p> <p>Biology: You can only have one life (look after it) – digestive system and drugs</p>	<p>Chemistry: Clean air and water – environmental chemistry</p> <p>Physics: Driving along – motion, forces and energy transfer</p> <p>Biology: Casualty – human circulatory system</p>	<p>Chemistry: Physical or chemical change – using the particle model</p> <p>Physics: Fly me to the moon – rockets and the solar system</p> <p>Biology: Dead or alive (cells) – the role of cells</p> <p>Chemistry: Acids and alkalis – acidity and alkalinity in everyday science</p>	<p>Physics: Final frontier – astronomy and astrophysics</p> <p>Biology: My genes – DNA and genetics</p> <p>Chemistry: Everything in its place – the periodic table</p>	<p>Biology: Creepy crawlies – ecosystems and fieldwork</p> <p>Biology: Babies (reproduction) – human reproduction</p> <p>Chemistry: Novel materials – alloys, composites and carbon compounds</p> <p>Physics: Attractive forces – magnetic fields and electromagnetism</p>	<p>Biology: Body wars – human immune system</p> <p>Biology: Food factory – plants and food production</p> <p>Chemistry: Sorting out – purifying mixtures</p>

Science Entry Level Certificate (Year 10-11)	Year 11 Autumn 1	Year 11 Autumn 2	Year 11 Spring 1	Year 11 Spring 2	Year 11 Summer 1	Year 11 Summer 2
Items (approx. 6hrs teaching per topic)	<p>Physics: Hot stuff – heat, temperature and states of matter</p> <p>Chemistry: Fuels – hydrocarbons and polymers</p> <p>Physics: Our electricity supply – domestic electricity supply and Ohm’s law</p> <p>Physics: Alternative energy – renewable and non-renewable energy sources</p>	<p>Biology: Control systems – control systems of the human body</p> <p>Chemistry: How fast? How slow? – practical laboratory skills and rates of reaction</p> <p>Physics: Nuclear power – atomic model and radioactivity</p>	<p>Biology: Gasping for breath – human respiration and respiratory diseases</p> <p>Chemistry: Are you overreacting – using periodic table to predict rates of reaction</p> <p>Physics: Getting the message – using waves to communicate</p> <p>Chemistry: Heavy metal – reactivity and the extraction and recycling of metals</p>	<p>Physics: Full spectrum – electromagnetic waves</p> <p>Biology: Extinction – fossils, evolution and biodiversity</p> <p>Chemistry: Let’s get together – salts (NaCl), reactions and electrolysis</p>	<p>Physics: Medical rays – using waves in medicine</p> <p>Completion of portfolios as needed</p>	

Assessment

All assessments are teacher-marked. There is a short, written test for each item in the table above. Practical skills will be assessed in class as a series of can-do tasks and a longer practical task.

The assessments contribute the Entry Level Certificate as follows:

