



| | Autumn 1 | Autumn 2 | Spring 1 | Spring 2 | Summer 1 | Summer 2 |
|-----------|---|---|--|--|--|--|
| 7 | <p>Module 1: Reviewing Year 6 Science</p> <p>Module 2: Fundamentals of Science</p> <p>Big Questions in Science: How Do We Know About Science?</p> | <p>Module 3 and 4: Introduction to Science</p> <p>Big Questions in Science: What is the Earth Made Of?</p> | <p>Module 5: Cell</p> <p>Module 6: Particles</p> <p>Big Questions in Science: Why Do We Use the Materials that We Do? What Makes Pressure?</p> | <p>Module 7: Energy</p> <p>Module 8: Elements</p> <p>Big Questions in Science: Why Do We Get Electric Shocks?</p> | <p>Module 9: Electricity</p> <p>Module 10: Human Reproduction</p> <p>Big Questions in Science:</p> | <p>Science Project – Pupil Lead Investigation into a Topic of their Choosing</p> <p>Big Question in Science: How Do Plants Reproduce? What Do We Need Conservation? Pupil’s questions.</p> |
| 8 | <p>Module 1: Forces</p> <p>Module 2: Variation</p> <p>Big Questions in Science: How Do Cranes Work?</p> | <p>Module 3: Space</p> <p>Module 4: Interdependence</p> <p>Big Questions in Science: Why Do We Have Seasons?</p> | <p>Module 5 and 6: Systems</p> <p>Big Questions in Science: How Do We Move?</p> | <p>Module 7: Chemical Reactions</p> <p>Module 8: Heating and Cooling</p> <p>Big Questions in Science: How Do Metals React?</p> | <p>Module 9: Reproduction</p> <p>Module 10: Magnets</p> <p>Big Questions in Science: What is Colour?</p> | <p>Module 11: Acids and Alkalis</p> <p>Big Questions in Science: Pupil’s questions.</p> |
| 9 | <p>Module 1: Bioenergetics</p> <p>Module 2: Waves</p> <p>Big Questions in Science: How Do We Hear?</p> | <p>Module 3: Speed and Acceleration</p> <p>Module 4: Evolution</p> | <p>Module 5: Chemistry 1 – Atomic Structure</p> <p>Module 6: Biology 1 – Cell Biology</p> | <p>Module 7: Physics 1 – Energy</p> <p>Module 6: Chemistry 2 – The Periodic Table</p> | <p>Module 8: Biology 2 - Ecology</p> <p>Module 9: Physics 2 – Particle Model</p> | <p>Module 10: Chemistry 1 – Chemistry of Gases</p> |
| 10 | <p>Energy, Particle Models, Radiation, cell biology, photosynthesis</p> | <p>Atomic Structure and the Periodic Table, Energy changes, Cell Biology, Bioenergetics, Infection and response</p> | <p>Energy Changes, Organisation, Bonding and structures</p> | <p>Chemical Changes, Electricity</p> | <p>Quantitative Chemistry, Further Chemical Changes, Biodiversity</p> | <p>Biodiversity and Ecology, Organic Chemistry</p> |
| 11 | <p>Organic Chemistry, Using Resources, Homeostasis</p> | <p>Newtonian Forces, Homeostasis</p> | <p>Inheritance and genetics, More on Forces, waves</p> | <p>Waves, Magnetism, Rates of Reaction</p> | <p>Exam preparation</p> | |
| 12 | <p>Students study individual sciences beyond year 11. Details for those routes can be found under the specific subject.</p> | | | | | |



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In Science at Barr Beacon School, we intend to send pupils out into the world knowing how it works. Our science curriculum provides pupils with the scientific knowledge and experiences which will interest them in the scientific world. We aim to empower them to thrive in a scientific workplace or work outside of science with a greater understanding of the world around them. A greater knowledge of how the world around them works will also allow them to make more informed contributions to our democratic society during their life at Barr Beacon and beyond.