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| **Bishopton Long Term KS4 Curriculum Overview** | | | | | | | |
| **Subject:** | | **Combined Science: Trilogy** | | **Teacher** | **Mrs L Cooling** | | |
| **Year 10** | **TERM** | **Autumn 1** | **Autumn 2** | **Spring 1** | **Spring 2** | **Summer 1** | **Summer 2** |
| **WHAT ARE WE LEARNING ABOUT?** | **Biology 1 – Cell biology**  **Biology 2 - Organisation** | **Chemistry 1 – Atomic structure + the periodic table**  **Chemistry 2 – Bonding, structure and the properties of matter** | **Physics 1 – Energy**  **Physics 2 - Electricity** | **Biology 3 – Infection and response**  **Biology 4 – Bioenergetics** | **Chemistry 3 – Quantitative chemistry**  **Chemistry 4 – Chemical changes**  **Chemistry 5 – Energy changes** | **Physics 3 – Particle model of matter**  **Physics 4 – Atomic structure** |
| **ASSESSMENT OBJECTIVES** | **AO1: Demonstrate knowledge and understanding of: scientific ideas; scientific techniques and procedures. • AO2: Apply knowledge and understanding of: scientific ideas; scientific enquiry, techniques and procedures. • AO3: Analyse information and ideas to: interpret and evaluate; make judgments and draw conclusions; develop and improve experimental procedures.** | | | | | |
|  | **PATHWAY** | **GCSE Combined Science : Trilogy** | | | | | |
| **Year 11** | **TERM** | **Autumn 1** | **Autumn 2** | **Spring 1** | **Spring 2** | **Summer 1** | **Summer 2** |
| **WHAT ARE WE LEARNING ABOUT?** | **Physics 1 – Energy**  **Physics 2 - Electricity** | **Biology 3 – Infection and response**  **Biology 4 – Bioenergetics** | **Chemistry 3 – Quantitative chemistry**  **Chemistry 4 – Chemical changes**  **Chemistry 5 – Energy changes** | **Physics 3 – Particle model of matter**  **Physics 4 – Atomic structure** | **Revision** |  |
| **ASSESSMENT OBJECTIVES** | **AO1: Demonstrate knowledge and understanding of: scientific ideas; scientific techniques and procedures. • AO2: Apply knowledge and understanding of: scientific ideas; scientific enquiry, techniques and procedures. • AO3: Analyse information and ideas to: interpret and evaluate; make judgments and draw conclusions; develop and improve experimental procedures.** | | | | |  |
|  | **PATHWAY** | **GCSE Combined Science : Trilogy** | | | | |  |

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| **The core aims of the Key Stage 4 Combined Science: Trilogy Curriculum are to encourage learners to:** |
| * **develop scientific knowledge and conceptual understanding through the specific disciplines of biology, chemistry and physics** * **develop understanding of the nature, processes and methods of science, through different types of scientific enquiries that help them to answer scientific questions about the world around them** * **develop and learn to apply observational, practical, modelling, enquiry and problem-solving skills, both in the laboratory, in the field and in other learning environments** * **develop their ability to evaluate claims based on science through critical analysis of the methodology, evidence and conclusions, both qualitatively and quantitatively.** |
| **All schemes of learning are tailored the National Curriculum requirements for:** |
| **Combined Science: Trilogy and the new GCSE specification** |
| **Assessment:** |
| * Each scheme of learning will conclude with a formal assessment focused on the content of that topic * The assessments and marking criteria will be modelled on GCSE frameworks and the school’s data entry policies. * Formative assessment will take place continuously with either written or verbal feedback. * Students will be involved in a Progress Review meeting with their teacher at the end of each term. |