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Curriculum Plans – Key Stage 3 Year 8 Science

Please find below a detailed outline of the curriculum covered in Science through Year 8 in Key Stage 3.
Year 8

	Term 1.1	Term 1.2	Term 2.1	Term 2.2	Term 3.1	Term 3.2
Topics	Working Scientifically: **Introduction to lab safety and equipment.** *Practical assessment* Biology: **Respiration-** *Gas exchange and circulation*	Chemistry: **Properties of Materials-** *Solubility and separation* Physics: **Forces and Energy-** *Forces, motion and pressure*	Working Scientifically: **Measurement and Precision-** *Practical assessment* Biology: **Ecosystems-** *Ecosystem dynamics and bio-accumulation*	Chemistry: **Materials and Their Structure-** *Atomic structure, atmosphere and climate* Physics: **Light-** *Reflection, refraction and colour*	Biology: **Diet and Growth-** *Nutrition, health and the body.* Chemistry: **Chemical Reactions-** *Energy and reactions with metals*	Physics: **Magnetism-** *Magnetic Fields, poles and electro-magnetics*
Assessment	EoU assessment and practical assessment focusing on Health and Safety	EoU assessment and a creative writing task to apply a story to motion graphs	EoU assessment and practical assessment focusing on measurement and precision	EoU assessment and escape room design.	EoU Assessment and Chemistry practical assessment focusing on data collection	EoU assessment End of year Assessments
Support Materials	Cambridge Lower Secondary Learner and Work book. Facilities and equipment for practical experiments. Specific topics will have a “foundation week” where we review prerequisite knowledge to the unit.					
Extension (Stretch/Challenge)	Application of context, sneak peaks and GCSE content, reflection and improvement opportunity, responding to feedback, self-evaluation and assessment question level analysis.					