**KS3 SCIENCE CURRICULUM PLAN**

Planning Grid Groups 1, 2 + 3 Science 2019-2020

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|  | Autumn 1 | Autumn 2 | Spring 1 | Spring2 | Summer 1 | Summer 2 | |
| Unit (s) | **Introduction: Experiments & Investigating Science**  Safety in the lab  **Forces & their effects**  Using forces  Balancing forces  Floating & sinking  Bending and stretching  Friction  Weight  Speed  **Cells**  Microscopes  Looking at cells  Organs  Pollination  Seeds  **Simple chemical reactions**  New materials  Rate of reaction  Burning  History of burning | **Energy resources**  What is energy  Running out of energy  Energy from the Sun  Fossil fuels  Burning fuels  Renewable energy  Global warming  **Reproduction**  Having babies  Fertilisation  Gestation  Birth  Adolescence  **Heating & cooling**  Heating  Conduction  Convection  Radiation  Cooling curves | **Patterns of reactivity**  Rusting  Reactivity rate  Predicting reactions  Useful reactions  **Fit and healthy**  Health levels  Smoking  Alcohol  The Heart  **Light**  Seeing light  Mirrors  Shadows  Refraction  Lenses  Colour | **Sound and hearing**  Making sounds  Sound waves  Music notes  Noise  **Inheritance and selection**  Variations  Genes  Selective breeding  Cloning  DNA  **Using chemistry**  Burning fuels  Exothermic & Endothermic reactions  Making iron  Changing mass | **Plants and photosynthesis**  Photosynthesis  Leaves  Water around a plant  Carbon cycle  Plant growth  Fertilisers  Eutrophication  Food pyramids  **Pressure and moments**  Pressure  Water pressure  Turning forces  Levers  **Atoms & elements (recap)**  Chemical elements  Symbols  Classifying elements  Periodic table  Making compounds | **Gravity and space**  Mass and weight  Gravity  Solar system  Universe  Rockets and satellites  Future of space travel  **Compounds & mixtures (recap)**  Compounds  Mixtures  Separating mixtures  **Project based activities** –if time allows |