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| **Subject Yearly Overview 2021-2022 year 7** |
| **Subject:** **Science** | **TOPIC** | **COMPONENT** | ***Notes:*** *Why are you delivering this topic at this time of year?* |
| **Autumn 1** | Living/ non living | Life processes and cellular function and structure.  | The fundamental aspects of Life underpin biology- the study of life of course! |
| **Autumn 2** | Substances and properties | Exploring the safe use of basic equipment in a Scientific setting.Creation of risk assessments and use of Writing frames for science reports. | Students will explore the basic themes in studying chemistry within the limitations of the Science study room. |
| **Spring 1** | Matter | Floating and sinking practical investigations of Physical phenomena and use of measuring equipment.We will study the effects of water convection and use temperature measuring equipment. | This is third pillar of the Science theme- that of Physics and measuring physical phenomena that we encounter everyday. |
| **Spring 2** | Organ systems | Students will study the structure of the human body and the processes these undertake. We will create diagrams to link the way organs work together in systems and also at the cellular level with specialised cells | This will give students a deeper understanding of the function and operation of the human body. This follows the advised sequence from BEST |
| **Summer 1** | Substances and properties | How to identify acids and alkalis and their properties and the use of indicators.Introduction to the periodic table to understand the use of Chemical symbols and the first 20 elements. | We will build on the previous study and introduce the main themes of Chemistry such as the Periodic table and the scientific method. |
| **Summer 2** | Heredity and life cycles | Practical investigation opf extracting DNA and creating punnett squares. | This will be the perfect season to explore growth of plants and lin king seeds with the passing on of genetic information in a practical manner. |