**Long Term Plan for Science**

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|  | **Autumn 1** | **Autumn 2** | **Spring 1** | **Spring 2** | **Summer 1** | **Summer 2** |
| **Year 1** | Seasonal Changes  **Which season is it?**  Introduction to the four seasons with a focus on changes observed in Autumn. | Materials  (1 of 2)  **What are things made of?**  Identify and name everyday materials and understand their properties. | Animals and Seasonal changes  **What animal am I?**  Identify different classes of animals and their diets.  Winter | Animals and Seasonal changes  **How does my body work?**  Identify basic parts of the human body and identify which parts of the body are associated to each sense.  Spring | Plants  **What can I see outside in my garden?**  Identify common garden and wild plants, how they grow and can be grouped. | Materials (2 of 2) and Seasonal changes  **What can I make with this material?**  Focus on working scientifically.    Summer |
| **Year 2** | Animals including humans  **What do we need to do to survive and stay healthy?**  Basic needs of animals including humans for health and growth. | Living things and their habitats  **How do plants and animals survive?**  Habitats and simple food chains. | Everyday materials  **What can objects be made of?**  Suitability of everyday materials for their purpose. | Environmental Unit  **How can I look after my planet?**  Focus on environmental science and our impact on the world around us. | Plants  **How do my plants grow?**  Observe seeds and bulbs growing and the conditions needed for healthy growth. | Working scientifically  **How am I a scientist?**  Focus on scientific enquiry types and working scientifically. |
| **Year 3** | Forces and Magnets  **How do magnets work?**  Explore magnets and the properties of magnetic materials. | Rocks  (1 of 2)  **How are rocks all different?**  Classification and properties of rocks. | Animals including humans  **What do we need to eat to stay healthy?**  Nutrition for healthy bodies. | Plants  **Why do some plants flower?**  Identify the different parts of plants and the processes that help them to grow. | Rocks  (2 of 2)  **What is a fossil?**  Learning about fossils and how they are formed. Soils | Light  **How are shadows formed by the sun?**  Recognising dark is the absence of light, how shadows are formed and what is a reflection. |
| **Year 4** | Living things and their habitats  **What is happening to my environment?**  Classification and human impact on the environment. | Animals incl humans  **What happens to the food I eat?**  Digestive systems, food chains and the importance of teeth. | States of Matter  **Solid, liquid or a gas?**  Changes of state including heating, cooling and evaporation. | Sound  **What’s that I hear?**  How sounds are made and how they can change | Electricity  **How does electricity work?**  Circuits and their components. | Working scientifically  **How am I a scientist?**  Focus on enquiry types and working scientifically. |
| **Year 5** | Forces  **What makes things move?**  Investigating and learning about different forces | Earth and Space  **What causes night and day?**  Planets of the solar system, movement of the earth, sun and moon | Properties and changes of materials  (1 of 2)  **How do I decide which material is best?**  Group and compare different materials and investigate how they can be best used. | Living things and their habitats  **How do living things change over time?**  Life cycles of plants and animals including humans | Properties and changes of materials  (2 of 2)  **What happens if I mix two materials?**  Reversible and irreversible changes. How to separate mixtures. | Animals including humans  **What happens when I grow up?**  Growth and development in humans |
| **Year 6** | Evolution and inheritance  **How do we know that living things change over time?**  Fossils and adaptation | Light  **How do we see?**  Light and shadows | Electricity  **What changes can I make to an electrical circuit?**  Circuits, how to draw circuit diagrams and what happens when components are added or taken away | Animals incl humans  **How does my body work?**  Human circulatory systems and the impact of lifestyle choices | Living things and their habitats  **Where do I fit in?**  Classification systems | Working scientifically  **How am I a scientist?**  Focus on enquiry types and working scientifically. |
| **Enrichment Days** |  | National Tree Week  28.11.21 – 06.12.21 | Big Schools Birdwatch | Science Week  05.03.22 – 14.03.22 | International Astronomy Day 07.05.21  World Bee Day  20.05.22 | World Oceans Day  08.06.21 |
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