**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 Week28.11.21 – 06.12.21 | Big Schools Birdwatch | Science Week 05.03.22 – 14.03.22 | International Astronomy Day 07.05.21World Bee Day 20.05.22 | World Oceans Day08.06.21 |
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