

St Michael in the Hamlet

Science Curriculum Overview – 2024/2025

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|  | **Autumn Term** | | **Spring Term** | | **Summer Term** | |
| **Nursery** | **Talk about own experience of the natural world.** | **Observe and talk about changes to different materials / objects,** e.g. frost melting | **Explore collections of materials with similar or different properties.**  **Explore how things work.** | **Plant seeds and care for growing plants. Begin to understand the need to respect and care for the natural environment** | **Continue to observe and talk about the natural environment, building a wider vocabulary** | **Explore and talk about pushes, pulls, twists and stretches, changing and moving materials** |
| **Reception** | **Floating and sinking**  Which materials make good boats. | **Animals that live in cold places**  Comparing Liverpool with cold places |  |  | **Animals and plants in hot places** | **How does our environment change in summer?** |
| **YEAR 1** | **Comparing Materials**  Describe simple physical properties, compare and group | **Seasonal Change** (in more depth)  How will we observe and describe the weather? What happens to the amount of daylight? | **Animals**  Identify and name a variety of common animals, including fish, birds, mammals, reptiles and amphibians. | **Animals including humans**  Parts of animals / the human body. The five senses. | **Everyday materials**  Identifying common materials. Performing simple tests on different materials | **Plants**  Identify and name a variety of common wild and garden plants and trees. The structure of a simple flowering plant. |
| **Year 1** | **Seasonal Change** Observing how weather and daylight change throughout the year. | | | | | |

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| **YEAR 2** | **Animals including Humans**  Humans have offspring which grow into adults | **Living things and their habitats** Identify and name a variety of animals and plants in their habitats, including micro-habitats. | **Materials**  Everyday materials and the jobs they are used for. Compare suitability of materials | **Changing materials**  How can solid objects be changed by squashing, bending, twisting and stretching | **Growing plants**  Plants need water, light and a suitable temperature to grow healthily. | **Feeding and exercise**  The basic needs of humans and other animals for survival |
| **YEAR 3** | **Forces**  Movement on different surfaces  **Magnets**  Which materials are attracted? How do they interact? | **Light**  Light is needed to see. Light sources. How shadows are formed. Best materials for making shadows. | **Rocks**  Describe simple physical properties and group rocks. Fossil formation. Soil formation. | **Growing and Moving**  The role of the skeleton.  Healthy eating for humans and other animals. | **Parts of plants**  Roles of different plant parts. Life cycle of a flowering plant.  Different methods of seed dispersal | **What plants need**  Changing growing conditions and seeing how this affects growth. |
| **YEAR 4** | **Animals including Humans**  Parts of the body. The digestive system | **States of matter**  Solids, liquids and gases- links with ice | **Sound**  Making and changing sounds, vibrations, pitch and volume. | **Living things and their habitats**  Environments can change, and this can pose dangers to living things | | **Electricity**  Mains and batteries. Simple electrical circuits.  Links to D&T |
| **YEAR 5** | **Earth and Space**  Size, spacing and movement in our solar system | **Separating Mixtures**  Sieving, filtering, evaporating, condensing. | **Properties and changes of materials**  Sorting and grouping, dissolving and heating | **Forces**  **Air** resistance slowing movement, parachutes | **Types of change**  Reversible and irreversible changes | **Living things and their habitats-** life cycles |
| **Year 6** | **Light and Sight**  How light travels. Shadow formation. Reflective clothes | **Classifying Living Things**  Major classification kingdoms, sorting micro-organisms, plants and animals | **Evolution and Inheritance**  Adaptation and genetics | **Our Bodies**  The circulatory system | **Changing circuits**  Working with circuit components | **Raising Science Capital**  Celebrating our science experiences |