

St Michael in the Hamlet

Science Curriculum Overview – 2025/2026

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|  | **Autumn Term** | **Spring Term** | **Summer Term**  |
| **Weather and Seasons (ongoing)**Learn about rain, ice and water, Describe why the air moves, Explore snow and melting, Discover how rainbows are formed, Learn about the seasonal changes that happen in Spring and Summer, Learn about the seasonal changes that happen in Autumn and Winter. |
| **Nursery** | **Animals**Learn that animals are living things, Discover where animals live and what they need to survive, Explore where birds live and what they need to survive, Learn about farm animals, Learn about dinosaurs that lived on Earth. | **Food**Learn about your diet and how to stay healthy, Explore different types of vegetables, Discover different types of fruit, Learn about chicken and eggs, Discover that cows produce milk, Examine different ingredients, then weigh them to make a mixture, Explore the use of wheat and flour to make a dough. | **Forces**Understand what happens when you push or pull something, Explore objects that sink and float.  | **Health and Safety**Learn how to stay safe when using electricity, Explore different homes and the things we need in our home, Know about the people you can trust, Discover First Aid and what to do in an emergency. | **Insects and Invertebrates**Learn about insects and invertebrates, Discover where insects and invertebrates live, Explore more about insects and invertebrates.  | **Machines**Explore different types of machines and mechanisms, Learn how machines make jobs easier, types of transport.  |
| **Reception** | **Materials**Learn about living and non-living things, Discover that some things can change shape, Explore the process of melting, Learn about different materials, Discover how to make the perfect sandcastle.  | **Our Body**Learn about your body parts: the arms, legs, and chest, Learn about your body parts: the hands and feet, Learn about your body parts: the eyes and nose, Learn about your body parts: the ears, mouth and hair, Discover how our bodies change, Explore our similarities and differences and how we are all unique.  | **Plants**Discover that plants are living things, Learn about plants and where they come from, Explore how to look after plants.  | **Space**Explore outer space, Discover why rockets are important. | **The Senses**Learn about the senses, sight and touch, Explore ways to make sound, Discover the senses of hearing and sight, Explore the senses of smell and touch, Learn about your sense of taste.  |  |
| **YEAR 1** | **Animals, including humans 1 - All about me**Discover the basic parts of the human body, explore the five senses. | **Everyday materials**Identifying common materials. Performing simple tests on different materials | **Everyday materials -Building (based on the Three Little Pigs)**Understanding the properties of glass and fabrics, and building a structure strong enough to withstand wind and water. | **Plants**Identify and name a variety of common wild and garden plants and trees. Identifying the simple structure of a plant and a tree, and recording the growth of a plant.  | **Animals, including humans 2 - All about animals**Identify and name a variety of common animals, including fish, birds, mammals, reptiles and amphibians. Explore the difference between wild animals and pets.  |  |
| **Year 1** | **Seasonal Change** Understanding that there are four seasons, and the changes that take place in Autumn, Winter, Spring and Summer. Investigating how you can measure rainfall. |
| **YEAR 2** | **Uses of everyday materials**Identifying uses of different materials, Understand that materials can change their shape by twisting, bending, squashing or stretching, selecting materials to build a bridge. | **Living things and their habitats** Identify and name a variety of animals and plants in their habitats, including micro-habitats. Understanding what animals eat in their habitats, and food chains.  | **Living Things and their habitats – Habitats from around the world**Appreciate that environments are constantly changing, explore the rainforest, life in the ocean and the Arctic and Antarctic habitats.  | **Animals, including humans 1 – Growth**Describe the needs of animals and humans for survival. Explore the importance of hygiene, a healthy diet and exercise.  | **Animals, including humans 2 - Life cycles**Describe and order the changes of a human lifestyle. Identify the offspring and parents of an animal, and explore the lifecycles of a chicken, a butterfly and a frog.  | **Plants**Know the difference between seeds and bulbs, describe what a plant needs to be healthy, describe the life cycle of a plant and record the growth of plants over time.  |
| **YEAR 3** | **Scientific Enquiry**Using scientific enquiry to pose questions and write predictions, recording and presenting results, writing a method and carrying out a practical test, write a conclusion and identify and control variables.  | **Animals including humans**The role of the skeleton.Healthy eating for humans and other animals. | **Rocks**Describe simple physical properties and group rocks. Exploring the weathering of rocks, Fossil formation. Soil formation and types of soil.  | **Forces and Magnets**Explore contact and non-contact forces, how things move on different surfaces and different types of magnets. Explore the properties of magnets and everyday objects that are magnetic. | **What plants need**Changing growing conditions and seeing how this affects growthRoles of different plant parts. Life cycle of a flowering plant.Different methods of seed dispersal. | **Light**Identify the difference between light sources and non-light sources. Explore how shadows are made, and how they change through the day. Explore the light that comes from the sun and how to stay safe.  |
| **YEAR 4** | **Animals including Humans**Parts of the body. The digestive system. Teeth. Food chains and webs.  | **Living things and their habitats**Explore and research different habitats. Adaptations and Classification keys including pond plants,  | **Living things and their habitats –Conservation**Describe ecosystems and how they are affected by changes in the seasons and the human impact on the environment of deforestation. Explore air and water pollution.  | **States of Matter**Compare and group the 3 states of matter, and how particles behave in solids, liquids and gases. Melting, freezing and boiling points, condensation and evaporation. The water cycle.  | **Sound**Making and changing sounds, vibrations, pitch and volume. | **Electricity**Explore electrical appliances and electrical safety, Mains and batteries. Simple electrical circuits. Conductors, insulators, switches and the effect of components on an electrical circuit.  |
| **YEAR 5** | **Forces**Air resistance slowing movement, parachutes.Water resistance – friction | **Properties of materials**Explore thermal conductors and thermal insulators, Hardness and solubility, separating mixtures using filtering, sieving, evaporating or magnets. | **Changes of materials**Use evaporation to recover the solute from a solution, reversible changes, rusting, burning and chemical reactions.  | **Animals including humans**Identify the key stages of a mammal’s life cycle, gestation periods in mammals, foetal development and puberty, changes humans may experience during adulthood and old age. | **Earth and Space**Size, spacing and movement in our heliocentric solar system. Earth’s rotation night and day, and the movement of the Moon.  | **Living things and their habitats**Life process of a plant and life cycles of mammals, insects, amphibians, birds and reptiles. The life and work of Jane Goodall and David Attenborough. |
| **Year 6** | **Electricity**Describing an electrical circuit, working with circuit components**,** building a set of traffic lights, applying knowledge of conductors and insulators. | **Light** How light travels, Explore reflection and explain how it can be used to help us see. How shadows change, and why they cast the same shape as the object that has made them. Investigate how we can see objects.  | **Animals including humans**The circulatory system, the heart, vessels and blood. Learn how the body transports water and nutrients, and investigate how the body transports water and nutrients. What affects your heart rate, and Learn about the impact of drugs and alcohol on the body. | **Living things and their habitats**Major classification kingdoms, sorting micro-organisms, plants and animals. Classify living things using the Linnaean system, Investigate asexual reproduction through spore dispersal and classifying a living organism. | **Evolution and Inheritance**Animal and plant adaptation and genetics**.** Understand how offspring vary and are not identical to their parents. Explore the theory of evolution, and what we can learn about human evolution.  | **Looking after the environment.** What is climate change?How can we reduce waste sent to a landfill? How to reduce energy consumption, what happens when fuels are burnt and have the outcomes of COP26 been met? Compare data associated with the weather.  |