



SCPS Long Term Planning
Term by Term Curriculum Overview

Science

| | Term 1 | Term 2 | Term 3 | Term 4 | Term 5 | Term 6 |
|--------|--|---|---|--|---|---|
| Year 1 | <p>Unit 1 Scientists and Inventors</p> <p>Pupils to learn about inventions, different kinds of scientists and to collect weather data.</p> | <p>Unit 2 Seasonal Changes (Autumn and Winter)</p> <p>Pupils to learn about the four seasons, with a particular focus on autumn and winter.</p> | <p>Unit 3 Everyday Materials</p> <p>Pupils to learn to identify and name everyday materials and will have the opportunity to explore the properties of these material.</p> | <p>Unit 4 Seasonal Changes (Spring and Summer)</p> <p>Pupils to observe changes across the seasons by exploring the signs of spring and summer through nature and wildlife, record the weather in different seasons and start to make comparisons between two seasons.</p> | <p>Unit 6 Plants</p> <p>In this unit about plants, children will learn to name the basic parts of a plant, including seeds.</p> | <p>Unit 5 Animals Including Humans</p> <p>Pupils to learn about animal classification and diets and the human body.</p> |
| Year 2 | <p>Unit 1 Plants</p> <p>Pupils to learn about the lifecycle of a plant and different plant adaptations.</p> | <p>Unit 2 Uses of Everyday Materials</p> <p>Pupils to compare the suitability of different everyday materials for different purposes.</p> | <p>Unit 3 The Environment</p> <p>Pupils to engage with environmental issues and to understand the simple changes we can make to live more sustainable lives.</p> | <p>Unit 4 Scientists and Inventors</p> <p>Pupils to learn about famous scientists and inventors, the work of doctors, the invention of the biomes at the Eden Project, the spread of germs and the development of wind turbines and how this invention is used to generate power.</p> | <p>Unit 5 Living Things and Their Habitats</p> <p>Pupils to learn about a variety of habitats and the plants and animals that live there.</p> | <p>Unit 6 Animals Including Humans</p> <p>In this unit, Animals Including Humans, children will begin by looking at animal young and comparing them to their adults.</p> |
| Year 3 | <p>Unit 1 Plants</p> <p>Pupils to learn about the parts of a plant, what they need to grow and how water is transported in plants.</p> | <p>Unit 2 Animals Including Humans</p> <p>Pupils to learn about the different nutrient animals get from food, why they need different things and what nutrients humans need from their food.</p> | <p>Unit 3 Light</p> <p>Pupils to learn about light, reflections and shadows.</p> | <p>Unit 4 Rocks</p> <p>Pupils to discover the different types of rocks and how they are formed.</p> | <p>Unit 5 Forces and Magnets</p> <p>Pupils to learn about forces, friction and magnetic attraction.</p> | <p>Unit 6 Scientists and Inventors</p> <p>Pupils to learn about Sir Joseph Banks, Marie Curie, George Washington Carver and Inge Lehmann.</p> |
| Year 4 | <p>Unit 1 Living Things and Their Habitats</p> <p>Pupils to split into 'vertebrates' and 'invertebrates' and begin to consider the differences between living things within these classifications and create classification keys.</p> | <p>Unit 2 States of Matter</p> <p>Pupils to learn about the differences between solids, liquids and gases, classifying objects and identifying their properties.</p> | <p>Unit 3 Electricity</p> <p>Pupils to learn about common electrical appliances and how to construct simple series circuits.</p> | <p>Unit 4 Sound</p> <p>Pupils to learn about how vibrations cause sounds and how sounds travel, as well as how sounds can change pitch and loudness.</p> | <p>Unit 5 Animals Including Humans</p> <p>Pupils to learn about the digestive system in humans and animals and the functions of teeth.</p> | <p>Unit 6 Scientists and Inventors</p> <p>Pupils to learn about Gerald Durrell, Alexander Graham Bell, Maria Telkes and Eleanor Raymond, Garrett Morgan, Lord Kelvin and Thomas Edison.</p> |
| Year 5 | <p>Unit 1 Earth and Space</p> <p>Pupils to learn about the Earth and our place in our Solar System.</p> | <p>Unit 2 Living Things and Their Habitats</p> <p>Pupils to learn about the process of reproduction and the life cycles of plants, mammals, amphibians, insects and birds.</p> | <p>Unit 3 Forces</p> <p>Pupils to learn about types of forces such as gravity, friction, water resistance and air resistance as well as levers, gears and pulleys.</p> | <p>Unit 4 Animals Including Humans</p> <p>This unit focuses on the changes that human beings experience as they develop to old age. It tackles some sensitive subjects including puberty and death</p> | <p>Unit 5 Properties and Changes of Materials</p> <p>This 'Properties and Changes of Materials' unit will teach your class about different materials, their uses and their properties, as well as dissolving, separating mixtures and irreversible changes. The children will sort and classify objects according to their properties.</p> | <p>Unit 6 Scientists and Inventors</p> <p>This 'Scientists and Inventors' unit will teach your class about famous scientists and inventors linked to the Y5 science curriculum.</p> |
| Year 6 | <p>Unit 1 Living Things and Their Habitats</p> <p>Pupils to learn about micro-organisms adding this information to their knowledge of classification.</p> | <p>Unit 2 Light</p> <p>This 'Light' unit will teach your class about light, how we see, shadows, reflection and refraction.</p> | <p>Unit 3 Evolution and Inheritance</p> <p>This unit builds on the children's learning from the Year 3 Rocks unit as well as the Animals including Humans and Living Things and their Habitats units</p> | <p>Unit 4 Electricity</p> <p>This unit builds on from the Year 4 Electricity unit. Children will learn to represent circuits using symbols in a diagram</p> | <p>Unit 5 Animals Including Humans</p> <p>This unit recaps the children's learning from year 4 about how animals survive and stay healthy and helps children to learn more about how different organ systems work.</p> | <p>Unit 6 Scientists and Inventors</p> <p>This 'Scientists and Inventors' unit will teach your class about famous scientists and inventors linked to the Upper Key Stage 2 science curriculum.</p> |