SCIENCE

WHOLE SCHOOL MEDIUM TERM OVERVIEW

2025 / 2026

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| A science themed poster with symbols  AI-generated content may be incorrect. | Autumn 1  (8 Weeks) | Autumn 2  (7 Weeks) | Spring 1- Science week  (6 weeks) | Spring 2  (5 Weeks) | Summer 1  (6 Weeks) | Summer 2  (7 Weeks) |
| **Year 1** | **Animals including Humans – Humans**   1. What are the basic parts of the human body? 2. What are the parts and functions of the eye? 3. How do our ears allow us to hear? 4. How does our tongue allow us to taste 5. How does our skin allow us to feel? 6. How does our nose smell? | **Everyday materials 1.**   1. What everyday materials are objects made from? 2. What are the differences between an object and the material it is made from? 3. What are the properties of everyday materials? 4. Which everyday materials are natural, and which are manmade? 5. Which objects will float and which will sink? 6. Which materials are best for different objects? | **Everyday Materials 2**   1. How can we build a structure strong enough to withstand wind? 2. How can we build a waterproof structure? 3. What are the properties and uses of glass? 4. Which materials can be used to make furniture? 5. What are some of the properties of fabrics? 6. Why are some materials suitable for specific purposes? | **Seasonal Change**   1. How many seasons are there? 2. What are the changes that take place in autumn? 3. What are the changes that take place in winter? 4. What are the changes that take place in Spring? 5. What are the changes that take place in summer? 6. How can we measure rainfall? | **Animals including humans – Animals**   1. What are the 5 animal groups and their key characteristics? 2. What are the differences between mammals and birds? 3. What are the differences between amphibians, reptiles and fish? 4. What do living things eat? 5. What are the differences between wild animals and pets? 6. What are the characteristics of an animal? | **Plants**   1. How do seeds grow into plants? 2. What are the basic parts of a plant and tree? 3. Can different plants grow in the same environment? 4. What are the differences between deciduous and evergreen trees? 5. Are fruit trees and vegetables a variety of plant? 6. How can we record the growth of a plant? |
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| **Year 2** | **Living things and their habitats**   1. What are the differences between things that are living, dead and that have never been alive? 2. Which plants and animals live in a microhabitat? 3. What does a microhabitat need for living things to survive? 4. What do animals eat to survive in their habitat? 5. What is a food chain? 6. How does food get from the farm to the supermarket? | **Living things and their habitats – around the word**   1. What is a habitat? 2. Do environments constantly change? 3. Why are rainforests important? 4. What can you find in an ocean? 5. What is it like in the Polar regions? 6. What types of habitats are there? | **Everyday materials**   1. What are the different types of materials and their uses? 2. What materials are needed to build a bridge? 3. How can you test the stretchiness of materials? 4. How can materials change their shape? 5. Who was Charles Macintosh? 6. Which materials change shape when you build a road? | **Plants**   1. What is the difference between a seed and a bulb? 2. What do plants need to grow? 3. What do plants need to stay healthy? 4. What is the lifecycle of a plant? 5. How can you record the growth of plants over time? 6. How do plants adapt to suit their environment? | **Animals including Humans – Lifecycles**   1. What are the stages of the human lifecycle? 2. What are the stages of life from adulthood to old age? 3. How can we match offspring to their parent? 4. What is the lifecycle of a chicken? 5. What is the lifecycle of a butterfly? 6. What is the lifecycle of a frog? | **Animals including Humans – Growth**   1. Describe the needs of animals for survival 2. Describe the needs of humans, for survival 3. Explore the importance of eating the right food 4. Describe what a healthy, balanced diet looks like 5. Investigate the impact of exercise on our bodies 6. Investigate the importance of hygiene |
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| **Year 3** | **Scientific enquiry**   1. How can we pose questions and write predictions? 2. How can we record and present results? 3. How can we write a method and carry out a practical test? 4. How can we write a conclusion? 5. How can we carry out a fair test using controls and variables? 6. How do we carry out a scientific enquiry? | Rocks   1. How are igneous rocks formed and what are their properties? 2. How are sedimentary and metamorphic rocks formed and what are their properties? 3. What is weathering? 4. How does water contribute to the weathering of rocks 5. How are fossils formed? 6. Is all soil the same? | **Animals including Humans**   1. What are the 5 key food groups? 2. What nutrients do we get in the food we eat? 3. How are skeletons different? 4. Why do humans have a skeleton? 5. Are all animal skeletons the same? 6. Whys do we have muscles? | **Forces and magnets**   1. What are contact and non-contact forces? 2. How do objects move on different surfaces? 3. What types of magnets are there? 4. What are the properties of magnets and objects that are magnetic? 5. Can magnets act at a distance? 6. What are magnets used for? | Plants   1. What effect do different factors have on plant growth? 2. What are the functions of different parts of flowering plants and how are they used in photosynthesis? 3. How is water transported within plants? 4. What part do flowers play in the lifecycle of flowering plants? 5. How do plants reproduce? 6. What is the effect of different factors on plant growth? | Light   1. What are the differences between light sources and non-light sources? 2. How can we stay safe in the sun? 3. Which materials are reflective? 4. How are shadows formed? 5. How do shadows change throughout the day? 6. How can you change the size of a shadow? |
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| **Year 4** | **States of matter**   1. What are the 3 states of matter? 2. How do particles behave in solids, liquids and gases? 3. What is a melting point? 4. What are freezing and boiling points? 5. What is evaporation and condensation? 6. What is the water cycle? | **Electricity**   1. What are the dangers of electricity and how can we keep safe? 2. What are the components that make up an electrical circuit? 3. How can we create a simple circuit? 4. What are conductors and insulators? 5. How does a switch work? 6. How can electrical components change within a circuit? | **Living things and their habitats**   1. What is a habitat? 2. What types of habitats can be found in the UK? 3. How can animals be classified? 4. How can we create a classification key? 5. How do animals adapt to their environment? 6. Which plants live in a pond habitat? | **Living things and their habitats – conservation**   1. How are ecosystems effected by changes in season? 2. What is the impact of deforestation? 3. What is air pollution? 4. What is water pollution? 5. How can we conserve water? 6. How can humans have a positive impact on nature? | **Animals including humans**   1. Which organs comprise the digestive system? 2. What are the functions of the main organs of the digestive system? 3. What are the types of human teeth and their functions? 4. What are the effects of different liquids on the teeth? 5. What is a food chain? 6. What is a food web? | **Sound**   1. How are sounds made? 2. How do vibrations from sounds travel through a medium to the ear? 3. What is sound insulation? 4. What is volume? 5. What is pitch? 6. How do sounds differ from near and from far? |
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| **Year 5** | **Forces**   1. What is gravity? 2. How does air resistance act on objects? 3. Which factors affect water resistance? 4. What is the effect of friction on different surfaces? 5. What effect do different forces have on an object? 6. How do gears work? | **Earth and Space**   1. What is in Space? 2. What is the heliocentric model of the solar system? 3. How does the Earth move in space? 4. How does the Earth rotate? 5. How does the moon move? 6. What are the characteristics of a planet? | **Properties of materials**   1. What are the properties of materials? 2. What is a thermal conductor and a thermal insulator? 3. How can you test the hardness of a material? 4. Which materials are soluble in water? 5. How can you test the solubility of a material? 6. How can materials be separated? | **Changes of materials**   1. How can evaporation be used to recover a solute from a solution? 2. What is a reversable change? 3. How are chemical reactions used to create new materials? 4. What is rusting? 5. What does fire need to burn? 6. How can you create a chemical reaction? | **Animals including humans**   1. What are the key stages of a mammal’s life cycle? 2. What is a gestation period? 3. How does a foetus develop? 4. Does hand span change during childhood? 5. What are the changes experienced in puberty? 6. What changes do humans experience during old age? | **Living things and their habitats**   1. What are the life processes of a plant? 2. Do all mammals havethe same lifecycle? 3. How are the lifecycles of insects and amphibians different? 4. What is the lifecycle of birds and reptiles? 5. Who are Jane Goodall and David Attenborough? 6. How can we research and present the lifecycle of a creature? |
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| **Year 6** | **Living things and their habitats**   1. How can we classify living organisms 2. How can living organisms be arranged into kingdoms? 3. How can we classify living things? 4. What are the characteristics of different types of microorganisms? 5. What is spore dispersal? 6. How can we classify and describe living organisms? | **Light**   1. How does light travel? 2. What is reflection? 3. How does reflection help us to see? 4. How can shadows change? 5. Do shadows have the same shape as the object that casts them? 6. How is light refracted? | **Electricity**   1. What are the parts of an electric circuit? 2. What is the effect of voltage on an electric circuit? 3. How can we correct and identify problems in a circuit? 4. What affects the output of a circuit? 5. How do traffic lights work? 6. What are conductors and insulators**?** | **Animals including Humans**   1. What are the functions of the heart? 2. What types of blood vessels are there? 3. What is blood? 4. How does the body transport water and nutrients? 5. What affects heart rate? 6. What is the impact of drugs and alcohol on the body? | **Evolution and inheritance**   1. How do offspring vary from their parents? 2. How do animals adapt? 3. How do plants adapt? 4. What can we learn from fossils? 5. What is natural selection? 6. How did humans evolve? | **Looking after our environment**   1. Learn about climate change 2. Explore ways to reduce how much rubbish is sent to landfills 3. Explore ways to reduce energy consumption 4. Explore what happens when fuels are burnt 5. Explore the outcomes of COP26 6. Compare data associated with the weather |
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