

KS2 Science Topic delivery and rationale 2024-2025

Year	Teachers	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Year 5	MG,HC,	Earth and Space	Human Life Cycle	Forces	Properties of Materials	Living Things	Changes in Materials
	CS,RG,						
	DC, OM,						
	NW						

We start year 5 with an exciting topic “Earth and Space”. This includes many opportunities for discussion and practical tasks to grow individuals’ confidence and allow the children to get use to their surroundings. The next topic “Human Life Cycles” introduces the concept of puberty and supports their individual changes so that they have confidence of them. It also looks at our bodies and shows how close we are to other animals. Individuals are always able to ask questions if required. The “Forces” topic provided opportunities for lots of practical fun activities to support their learning of the topic and to engage everyone in class and can relate to the world around them. There is some recall from previous years, and this is built upon throughout the topic. The next topic “Properties of Materials” allows the chance to get hands on with a range of scientific equipment and investigate a range of different materials. The topic provides a good foundation for later years. The “Living Things” topic examines a range of both animal and plant life cycles. The last topic in the year “Changes of Materials” build upon the earlier topic in the year and uses practical opportunities to investigate materials and their uses.

Year	Teachers	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Year 6	MG, HC, CS	Living Things and Their habitats	Evolution and Inheritance	Light	Electricity	Animals Including Humans	Looking after our Environment

In year 6 the year starts off with “Living Things and their Habitats”, where we investigate how and why we use classification to separate all living things. We use keys to separate different species and learn about food chains and webs. This is then expanded in more detail when it is taught again in KS3. “Evolution and Inheritance”, the next topic introduces the concept that we have evolved from other animals and involves opportunities for practical investigation.

Topic 3 is “Light”. This allows everyone to explore shadows, colour, reflection, and refraction in a fun exciting hands-on way that is progressive and supports further learning in light in Yr.8. For this topic we have collaborated with the Art department. The children will work on a “**Carnovsky**” project within Art and within their science lessons understand the way that the colours and filters work to produce their artwork. This will culminate in an exhibition in the hall just after the February half term.

The “Electricity” topic is next and provides ample opportunity for practical to and to get to know the electrical components that they will encounter in KS4. The summer term starts with “Animals including Humans” and explains healthy diets and the energy that is contained within food. Again, there are opportunities to practically explore the topic on several occasions. Finishing the year is “looking after our Environment” where we examine some of the pressures that our world is placed under because of human influence. This topic provides opportunities to research the issues we are facing, but also to discuss openly, our opinions about them.