Science Long-term Overview

EYFS	**Communication and Language:** Respond to what they hear with relevant comments, questions or actions. Answer how and why questions about their experiences and in response to stories and events. **Physical Development:** Handle equipment and tools effectively. **Personal, Social and Emotional Development:** Talk about their ideas and choose the resources they need for their chosen activities. **Mathematics:** Use everyday language to talk about size, weight, capacity, position, distance, time and money to compare quantities and objects and to solve problems. Explore characteristics of everyday objects and shapes and use mathematical language to describe them. **Understanding the World:** Know about similarities and differences in relation to places, objects, materials and living things. Talk about features of their own environment and how environments might vary from one another. Make observations of animals and plants and explain why some things occur, and talk about changes. Select and use technology for particular purposes.

Cycle A	Year 1		Year 2		Year 3/4		Year 5/6	
Autumn	**Animals including humans –** animals	**Animals including humans –** human body	**Everyday materials –** weather link	**Everyday materials –** changes	**Light –** light and dark, reflected light, shadows and sun	**Sound**	**Electricity –** circuit symbols, amps and volts	**Light –** travelling light, light sources, shadows
Spring	**Everyday materials**	**Everyday materials**	**Plants –** basic needs	**Plants –** seeds and bulbs	**States of Matter** Including the water cycle	**Forces and Magnets**	**Forces –** resistance and friction	**Earth and Space**
Summer	**Plants –** naming plants	**Plants –** basic flowering plants	**Animals including humans**	**Living things and their habitats**	**Rocks** – types of rocks and soil and how fossils are formed	**Animals including Humans –** Digestive system, teeth and food chains	**Forces –** Mechanisms **(Animals including humans: RSE also covered this half term)**	**Evolution and Inheritance -** Genetics

Cycle B	Year 1		Year 2		Year 3/4		Year 5/6	
Autumn	**Animals including humans –** animals	**Animals including humans –** human body	**Everyday materials –** weather link	**Everyday materials –** changes	**Animals including Humans –** importance of diet, exercise, drugs -micro-organisms	**Animals including Humans –** Skeletal and muscular systems	**Living things and their habitats –** observable characteristics, classification	**Evolution and Inheritance** – Evolution and adaptation
Spring	**Everyday materials**	**Everyday materials**	**Plants –** basic needs	**Plants –** seeds and bulbs	**Electricity –** Simple series circuit, conductors and insulators	**Living things and their habitats –** classification keys	**Forces -** Gravity	**Properties and changes of materials**
Summer	**Plants –** naming plants	**Plants –** basic flowering plants	**Animals including humans**	**Living things and their habitats**	**Forces** – exploring water resistance (pre-curser to Y5/6)	**Plants –** functions of different parts of flowering plant, requirements of plant life	**Living things and their habitats/Animals including humans (including RSE)**	**Animals including humans –** Circulatory systems