## **Stukeley Federation Science LKS2**

Throughout the year the children will cover a variety of aspects of the science curriculum to ensure all children:

- develop scientific knowledge and conceptual understanding through the specific disciplines of biology, chemistry and physics
- develop understanding of the nature, processes and methods of science through different types of science enquiries that help them to answer scientific questions about the world around them
- are equipped with the scientific knowledge required to understand the uses and implications of science, today and for the future.

Autumn 1	Living things and their habitats
	Pupils should be taught to:
	<ul> <li>describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird</li> </ul>
	<ul> <li>describe the life process of reproduction in some plants and animals.</li> </ul>
Autumn 2	Animals including humans (Nutrition, skeleton, muscles
	Pupils should be taught to:
	<ul> <li>identify that animals, including humans, need the right types and amount of nutrition, and that they cannot make their own food; they get nutrition from what they eat</li> </ul>
	<ul> <li>identify that humans and some other animals have skeletons and muscles for support, protection and movement.</li> </ul>
	<ul> <li>describe the simple functions of the basic parts of the digestive system in humans</li> </ul>
	identify the different types of teeth in humans and their simple functions
	<ul> <li>construct and interpret a variety of food chains, identifying producers, predators and prey.</li> </ul>
Spring 1	Forces and Magnets (Y3)
	Pupils should be taught to:
	compare how things move on different surfaces
	<ul> <li>notice that some forces need contact between two objects, but magnetic forces can act at a distance</li> </ul>
	<ul> <li>observe how magnets attract or repel each other and attract some materials and not others</li> </ul>
	<ul> <li>compare and group together a variety of everyday materials on the basis of whether they are attracted to a magnet, and identify some magnetic materials</li> </ul>
	describe magnets as having two poles
	<ul> <li>predict whether two magnets will attract or repel each other, depending on which poles are facing.</li> </ul>

Spring 2	States of Matter
	Pupils should be taught to:
	<ul> <li>compare and group materials together, according to whether they are solids, liquids or gases</li> </ul>
	<ul> <li>observe that some materials change state when they are heated or cooled, and measure or research the temperature at which this happens in degrees Celsius (°C)</li> </ul>
	<ul> <li>identify the part played by evaporation and</li> <li>condensation in the water cycle and associate the rate of evaporation with temperature.</li> </ul>
Summer 1	Plants
	Pupils should be taught to:
	identify and describe the functions
	explore the requirements of plants for life
	<ul> <li>explore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal.</li> </ul>
Summer 2	Scientists and Inventors

## Investigations - on-going throughout all units

planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary taking measurements, using a range of simple scientific equipment, recording data and results using scientific diagrams and labels, classification keys, tables and, bar graphs using test results to make own predictions and conclusions,