Year One	Year Two	Year Three	Year Four	Year Five	Year Six
What are living things made of? -Recognising different materials -Describe simple properties of materials -Classifying materials	**How do we choose materials?** -Choosing materials for purpose	**What is dark?** -Light and dark - Investigating shadows	**What do our bodies do with the food we eat?** -Teeth and digestion	**How do things move?** -Gravity and friction -Gears, levers and pulleys	**Living things; what's the same and what's different?** -Grouping organisms based in similarities -Classification structures.
What is alive? -Naming and describing plants and animals. -Noticing difference and similarities.	**Can we change materials?** -Changing materials by stretching, bending, twisting, squashing	**What can magnets do?** -Exploring how magnets and everyday objects interact. -Exploring how two magnets interact	**Living things: what's the same and what's different?** -Grouping plants and animals based on similarities and differences. -Classification keys	**Sun, moon and Earth; what is moving?** -Movement of the planets and the moon -Shape of the Earth, sun and moon	**How do we see?** -Light travels in straight lines -The shape of shadows
What are bodies and what can they do? -Structures of plants and animals (including humans); -Our senses	**How can living things stay healthy?** -Humans: diet, hygiene and exercise; -Plants: conditions for **optimal** growth.	**Do living things need different things to survive?** -Plants: How do nutritional requirements vary for different plants? -Animals: How do nutritional requirements vary for different animals?	**How do we hear different sounds?** -Vibrations -Investigating pitch, volume and distance	**What are things made from and why?** -Comparing and grouping materials -Link between properties and uses of materials	**How do our choices affect how our bodies work?** -Circulatory system -Transportation of water -Impact of drugs, exercise diet and lifestyle.
Do living things change or stay the same? Seasonal change- introduce big idea of cycles in the natural world. * taught the first 2 weeks of every half term.	**Can living things live forever?** -Basic cycle of life: animal reproduce to have young. -Plants: seeds -Dead/alive/never alive (link to materials)	**How do living things work?** -Plants: function of roots/stem etc. How water is transported. Function of flowers. -Humans: Bones	**Is water always wet?** -Properties of the three states of matter -Changing state -The water cycle	**Can we change materials?** -Reversible and irreversible change	**Can we vary the effects of electricity?** -Investigating the effects of changing components -Representing using symbols
	What do living things need to survive? -Animals: habitats food chains. Plants: germination	**Are all rocks the same?** -Comparing and grouping -Special rocks: fossils -Linking rocks and soils	**Can we control electricity?** -How do we use electricity -Simple circuits -Insulators and conductors	**Do all life cycles look the same?** -Animals: compare life cycles of different groups. Plants: compare different ways plants reproduce.	**How do living things change over time and place?** -Learning from fossils -Inheritance and variation -Adaptation and evolution
			Are living things in danger? -Changing environment and habitats -Food chains; producers, predators and prey	**How do our bodies change as we get older?** -Describing changes as we age. -Puberty	

Science Long Term Plan 2022/23

Chemistry **Physics** **Biology**