

Progression of Skills and Knowledge KS1 Science

Ongoing skills:	Year 1 and Year 2	
	○ Ask questions such as: ▪ Why are flowers different colours? ▪ Why do some animals eat meat and others do not? ○ Set up a test to see which materials keeps things warmest, know if the test has been successful and can say what has been learned ○ Explain to someone what has been learned from an investigation they have been involved with and draw conclusions from the answers to the questions asked ○ Measures (within Year 1 mathematical limits) to help find out more about the investigations undertaken	○ Ask questions such as: ▪ Why do some trees lose their leaves in Autumn and others do not? ▪ How long are roots of tall trees? ▪ Why do some animals have underground habitats? ○ Use equipment such as thermometers and rain gauges to help observe changes to local environment as the year progresses ○ Use microscopes to find out more about small creatures and plants ○ Know how to set up a fair test and do so when finding out about how seeds grow best ○ Classify or group things according to a given criterion, e.g. deciduous and coniferous trees ○ Draw conclusions from fair tests and explain what has been found out ○ Use measures (within Year 2 mathematical limits) to help find out more about the investigations they are engaged with

	Year 1	Year 2
Biology: Animals including humans	▪ Know the name of parts of the human body that can be seen ▪ Know about the five senses and link them with parts of the body	• Know the basic stages in a life cycle for animals, (including humans) • Know why exercise, a balanced diet and good hygiene are important for humans
Biology: Plants	▪ Know and name a variety of common wild and garden plants ▪ Know and name the petals, stem, leaves and root of a plant ▪ Know and name the roots, trunk, branches and leaves of a tree	• Know and explain how seeds and bulbs grow into plants • Know what plants need in order to grow and stay healthy (water, light & suitable temperature)
Biology :Living Things and their Habitats	▪ Know and classify animals by what they eat (carnivore, herbivore and omnivore) ▪ Know how to sort by living and non-living things ▪ Know how to classify a range of animals by amphibian, reptile, mammal, fish and bird	• Classify things by living, dead or never lived • Know how a specific habitat provides for the basic needs of things living there (plants and animals) • Match living things to their habitat • Name some different sources of food for animals • Know about and explain a simple food chain
Chemistry: Use of Everyday Materials	▪ distinguish between an object and the material from which it is made ▪ identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and rock ▪ describe the simple physical properties of a variety of everyday materials ▪ compare and group together a variety of everyday materials on the basis of their simple physical properties.	• Know how materials can be changed by squashing, bending, twisting and stretching • Know why a material might or might not be used for a specific job
Physics: Seasonal Changes	▪ Name the seasons and know about the type of weather in each season ▪ Observe and describe how day length varies across the seasons ▪ Observe changes in the seasons	