Maple Year A	Prior Knowledge	Knowledge to be explicitly taught	How the knowledge will	
Autumn			be built on	
Substantive	In EYFS:	Perform simple tests with support e.g. What material is best to make a boat?	In Willow:	
Knowledge	- Understand some important processes and changes in the natural world around them, including the seasons and changing states of matter	Know whether the test has been successful and can say what has been learned. To make simple predictions with support e.g. I think the boat will sink Ask simple questions and recognise that they can be answered in different ways e.g. By testing or by looking up Use simple equipment to observe closely including the use of magnifying	Identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses	
	or matter	glass and simple scaled rulers Gather and record data to help in answering questions Make a simple written explanation about what has been learned from an investigation or what conclusions have been found.	Find out how the shapes of solid objects made from some materials can be changed by squashing,	
Disciplinary		Everyday materials	bending, twisting and	
Knowledge		 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 	stretching.	
VOCAB		wood, plastic, glass, paper, metal, rock, hard, soft, rough, smooth, shiny, dull, bendy, stiff, brick, fabric, elastic, foil, property, solid, waterproof, absorbent, opaque, transparent, squash, bend, flexible, twist, stretch push, pull, roll, slide, bounce		
Learning Objective	To know the name of different everyday materials			
	 To distinguish between an object and the material from which it is made To describe the simple properties of wood, glass and metal To describe the simple properties of plastic, water and rock To compare and group everyday materials based on their properties To compare and group everyday objects based on their material properties To investigate: What would be the best material for a boat?- planning what we will do, starting the experiment To investigate: What would be the best material for a boat?- finishing the experiment and concluding our findings To investigate: What would be the best material for curtains? - planning what we will do, starting the experiment To investigate: What would be the best material for curtains? - finishing the experiment and concluding our findings To investigate: what material makes the best bags? - planning what we will do, starting the experiment To investigate: what material makes the best bags? - finishing the experiment and concluding our findings 			

Maple Year A	Prior Knowledge	Knowledge to be explicitly taught	How the knowledge will
Spring			be built on
Substantive Knowledge	In EYFS: Explore the natural world around them, making observations and drawing pictures of animals and	Ask simple questions and recognise that they can be answered in different ways e.g. By testing or by looking up Identify and group according to a given criteria e.g. Deciduous and coniferous trees To use observations to notice similarities and differences	In Willow: • Talk about criteria for grouping, sorting and classifying; and use simple keys
Disciplinary Knowledge	plants; - Know some similarities and differences between the natural world around them and contrasting environments, drawing on their experiences and what has been read in class;	Animals including humans Notice that animals, including humans, have offspring which grow into adults Find out about and describe the basic needs of animals, including humans, for survival (water, food and air) Describe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene. Identify and name a variety of common animals including fish, amphibians, reptiles, birds and mammals Identify and name a variety of common animals that are carnivores, herbivores and omnivores Describe and compare the structure of a variety of common animals (fish, amphibians, reptiles, birds and mammals, including pets) Identify, name, draw and label the basic parts of the human body and say which part of the body is associated with each sense	Recognise when and how secondary sources might help them to answer questions that cannot be answered through practical investigations Begin to look for naturally occurring patterns and relationships and decide what data to collect to identify them
VOCAB		amphibians, fish, reptiles, mammals, birds, herbivore, omnivore, carnivore, head, nose, ear, neck, shoulder, arm, elbow, wrist, hand, back, chest, hip, leg, knee, ankle, foot wing, beak, tail, fin sight, smell, touch, taste, hearing, food chain, prey, predator, camouflage, protection exercise, hygiene, balanced diet	
Learning Objective	 To name common animals offspring To notice the changes in humans from offspring to adult. To find out about and describe the basic needs of animals, including humans, for survival (water, food and air) To describe the importance for humans of exercise and hygiene. To describe the importance for humans of eating the right amounts of different types of food. To identify and name a variety of common animals including fish, amphibians, reptiles To identify and name a variety of common animals including birds and mammals To identify and name animals that are carnivores, omnivores and herbivores To describe the structure of fish, amphibians and reptiles To describe the structure of birds and animals To compare the structure of common animals To identify the parts of the human body To identify the parts of the human body associated with each sense 		

Maple Year A	Prior Knowledge	Knowledge to be explicitly taught	How the knowledge will
Summer 1			
Substantive Knowledge Disciplinary Knowledge	In EYFS: Explore the natural world around them, making observations and drawing pictures of animals and plants; - Know some similarities and differences between the natural world around them and contrasting environments, drawing on their experiences and what has been read in class;	Perform simple tests with support e.g. What material is best to make a boat? Know whether the test has been successful and can say what has been learned. To make simple predictions with support e.g. I think the boat will sink Ask simple questions and recognise that they can be answered in different ways e.g. By testing or by looking up Use simple equipment to observe closely including the use of magnifying glass and simple scaled rulers Identify and group according to a given criteria e.g. Deciduous and coniferous trees To use observations to notice similarities and differences Plants yr 1 – extend range of known plants compare and contrast plants focusing on structure of plants. • Identify and name a variety of common wild and garden plants, including deciduous and evergreen trees	In Willow: Recognise when and how secondary sources might help them to answer questions that cannot be answered through practical investigations Make systematic and careful observations Help to make decisions about what observations to make, how long to make them for and the type of simple equipment that might be used
		 Identify and describe the basic structure of a variety of common flowering plants, including trees Plants year 2 – what plants need to grow how seeds grow into plants Observe and describe how seeds and bulbs grow into mature plants Find out and describe how plants need water, light and a suitable temperature to grow and stay healthy. 	Begin to look for naturally occurring patterns and relationships and decide what data to collect to identify them
VOCAB		deciduous, evergreen, tree, leaf, flower (blossom), petals, fruit, bulb, seed, roots, stem, trunk, branches, growth, germinate, light, temperature reproduce, lifecycle	
Learning Objective	 To name a variety of wild plants To name a variety of garden plants To name a variety of deciduous trees To name a variety of evergreen trees To describe the basic structure of flowering plants To describe the basic structure of trees. 		