Maple Year A	Prior Knowledge	Knowledge to be explicitly taught	How the knowledge will
Autumn			be built on
Substantive Knowledge	In EYFS: - Understand some important processes and changes in the natural world around them, including the seasons and changing states of matter	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 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.	In Willow: Identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses Find out how the shapes of solid objects made from some materials can be changed by squashing,
Disciplinary Knowledge		 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 	bending, twisting and 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 curtains? - planning what we will do, starting the experiment 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? - planning what we will do, starting the experiment To investigate: What would be the best material for curtains? - planning what we will do, starting the experiment To investigate: what mould be the best material for curtains? - planning what we will do, starting the experiment To investigate: what material makes the best bags? - planning what we will do, starting the experiment To investigate: what material makes the best bags? - planning what we will do, starting the experiment 		

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			be built on
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 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 Find out and describe how plants need water, light and a suitable temperature to grow and stay healthy. 	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 • 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 To describe the basic To describe the basic 	garden plants deciduous trees evergreen trees structure of flowering plants	