Science Progression Journey (2023/24)

- Identifying and classifying
- Secondary sources
- Pattern seeking
- Fair and comparative testing
- Observing over time

	Seasonal Change	Materials	Animals incl Humans	Living things and habitats	Plants
Year 2	N/A	Materials - • Identify/compare the suitability of materials, for particular uses • What materials best to build a house? Why? • Identify/compare the suitability of materials, for particular uses answering the question which materials are best suited to building houses and why? • How the shapes of solid objects made from some materials can changed? Working Scientifically • Identifying and classifying • Pattern seeking	What happens as we grow up? • have offspring which grow into adults • basic needs of animals/humans What will keep me healthy? (Spring 2) • basic needs of humans • importance for humans of exercise, eating healthily and hygiene Working scientifically Secondary sources Pattern seeking	What are animal homes? • differences of living, dead, and things that have never been alive. • living things live in habitats • describe different habitats • simple food chain/ name different sources of food. Working scientifically • Identifying and classifying	What do plants need to grow? • Observe/describe seeds/bulbs grow into plants • Needs of plants- growing cress in 4 different conditions (observe over time) Working scientifically • Observing over time • Identifying and classifying • Fair and comparative testing.
Year 1	Seasonal change • Observe/describe changes in seasons • observe/describe the weather/ • weather station- measuring different weathers • day length (pattern seeking) Working Scientifically • Pattern seeking • Observing over time	Materials- Which materials should the three little pigs have used to build their house? • Distinguish between an object and the material from which it is made. • Children identify/name materials • Describe the properties of materials • Compare and group Working Scientifically • Identifying and classifying • Pattern seeking	What is an animal and how are they different to humans? • Identify and name common animals inc fish, amphibians, birds and mammals • Identify carnivores, herbivores and omnivores • Describe/ compare the structure of common animals • Identify the basic parts of the human body • Senses Working scientifically • Identifying and classifying • Secondary sources • Pattern seeking • Fair and comparative testing	N/A	Plants- What is a plant? • Identify and name a variety of common and wild and garden plants and trees. • Label and begin to describe the basic structure of a variety of common plants • Identify and name a variety of deciduous and evergreen trees Working scientifically • Identifying and classifying • Secondary sources

Foundation 2	*Seasonal change-* Name the seasons and understand the effects of seasonal change Autumn- What happens to leaves in Autumn? Finding autumn treasures/ leaf pattern & parts Winter- What do we notice in winter? I wonder what will happen if we freeze xxx? Spring- What do notice about the flowers'? I wonder if we can spot any flowers? Summer Working Scientifically • Pattern seeking • Observing over time	Autumn- Floating and sinking- What would happen if we put this leaf in a puddle? Change of state- apple pie, fire (smores) Light, dark and stars Winter- Change of state- freezing (different liquids) and melting (Ice paint pops) Rain- I wonder which material is best to keep incy wincy dry? Explores non-contact forces- CP (gravity and magnetism) Working Scientifically • Observing over time • Identifying and classifying • Pattern seeking	Autumn- owls Hedgehogs- What do we notice? Apples- 5 senses Winter- 5 senses (exploring frozen liquids) Cold climates- penguins and other Antarctic animals- What do we notice? Observational drawing. Spring-Healthy living- linked to pshe scheme Working Scientifically Observing over time • Secondary sources	Autumn-Owls, Hedgehogs- I wonder where they live? Winter- Cold climates- Emperor Penguins and their eggs. Spring- I wonder if we can spot any nests. I wonder if all birds live in nests? I wonder what other animals build nest? Are all nests the same? Working Scientifically • Identifying and classifying • Observing over time	Autumn- Apples -where do they grow? Are they all the same? leaves- Do all leaves fall on the ground? Sorting- colour/size Pumpkins- where do they grow? Are they all the same? Sorting- colour/size Mushrooms- where do they grow? Are they all the same? Spring- Spring flowers- How do they change over time? Observational drawings of spring flowers. Beans- I wonder if we can grow a beanstalk. I wonder what will help it to grow. What do we notice about the bean as it grows? What do we notice about different beans? Planting opportunities Autumn: crocus Spring: beans Summer: fruit plant Working scientifically • Observing over time • Identifying and classifying
Foundation 1	Seasonal change- Observe/explore the changes and weather Autumn- what is a leaf? Winter- Ice exploration Spring-What do notice in Spring? Summer Working scientifically • Observing over time	Autumn- Change of state- pumpkin muffins Winter- What does ice feel like? Forces- Magnets (CP) Working scientifically • Observing over time	Autumn- Exploring the 5 senses- apples/ mushrooms/pumpkins) Winter- 5 senses exploring ice. Cold climate- naming animals Cold climates- penguins and other Antarctic Spring- Healthy living- linked to pshe scheme Working scientifically • Observing over time • Identifying and classifying	Spring- I wonder who lives in a nest? I wonder what birds look like? Summer-Chicks- Observation of hatching eggs. Working scientifically • Observing over time • Secondary sources	Autumn-Planting bulbs Spring- spring flowers (planting flower seed) I wonder how we can help these to grow? I wonder if we can grow a plant that we can eat? Planting opportunities Autumn: daffodil Spring: cress (egg and cress sandwich) Summer: herbs Working scientifically • Observing over time • Identifying and classifying