

Year One LTP

Working scientifically overview	Lines of enquiry: research, pattern seeking, comparative testing, identifying and classifying, investigation over time.		7 super science skills: asking questions, setting up tests, observations, recording and presenting data, interpreting data, evaluating.
Summary	Autumn 1: All things Bright and Beautiful Science: Biology Strand: Animals, including humans	Autumn 2: Let's investigate Science: Physics Strand: Materials.	Summer 1: Blooming Beautiful Science: Biology Strand: plants
Prior knowledge	EYFS: Children will be familiar with a variety of animals and know how to use their senses to observe the world around them. They will be secure in sorting objects ready to observe items closely to identify and classify.	EYFS: Children will have explored natural materials such as building houses for the Three Little Pigs.	EYFS: Children will have observed plants and know common grass plants such as daisies, daffodils, buttercups.
Key Vocabulary	Animals: wing, body, beak, claw, fur, teeth, carnivore, herbivore, omnivore, reptile, mammal, fish, bird, amphibian, scale, skin, fur, mammary gland, gill Senses: smell & nose, sight & eyes, hearing & ears, taste and tongue, feel and skin. Robin, blackbird, magpie, sparrow, pets such as cats & dogs, frog, fish	Materials: cardboard, glass, water, metal, cotton, leather, elastic, plastic properties: hard/ soft, rough/smooth, fragile/ strong, stretchy/ stiff, shiny/ dull, rigid/flexible, see through/ not see through, absorbent/ not absorbent, waterproof/ not waterproof	Plants: leaf, petal, stem/stalk, bud, trunk, branches, root, fruit, berry, bulb, seed. Trees: oak, birch, fir, holly Flowers: daffodil, tulip, rose
Cultural capital	Trips: Austerfield study centre Books: Peter Puffin by Petr Horacek, Non-fiction texts. Careers: who looks after animals? Songs: head, shoulders... adapted eg, chin, stomach...	Books: The Messy Magpie by Twinkl Careers: what and who is a scientist? What does a scientist look like?	Books: That's not my flower... Careers: What and who is a botanist?
Core (sticky) knowledge/ skills	Children will know how to use their 7SSS (specifically observing & measuring) to identify and classify carnivores, herbivores, omnivores & reptiles, amphibians, mammals, birds and fish. They will be able to identify these animals by using vocabulary such as, scale, skin, fur, mammary gland, gill, beak, wings, claws. They will be able to identify their 5 senses & body parts.	Children will know how to use their 7SSS (specifically asking questions & setting up tests) to identify and classify objects, materials & properties. Children will be able to identify materials such as cardboard, glass, water, metal, cotton, leather, elastic, plastic, wood and bricks.	Children will know how to use their 7SSS (specifically observing and measuring) to identify and classify common UK flowers.

Future links	<p>Y2 – habitats & animals inc humans thriving & growing Y3 – animal inc humans nutrition & skeletons Y5- life cycles of mammals, reptiles... Y6 – classifying animals</p>	<p>Y2 – compare the use of everyday materials Y3 – forces & magnets Y5 – properties & change of materials.</p>	<p>Y2- What do seeds/bulbs/ plants need to thrive? Y3- functions of parts, water/ seed transport. Y4 – grouping living things inc, plants Y5- reproduction of plants Y6- how have plants adapted?/ classifying plants.</p>
Forest school links	<p>Seasonal changes: as an investigation over time Y1 learn to observe the changes across the seasons such as how the trees, weather, days & nights change. Autumn term (Autumn Leaves): children will use their observation skills to identify and classify common UK trees, including deciduous and evergreen.</p>		