

Subject Science				
Year	Skills/knowledge progression	Content	National Curriculum	Notes
1 T1	<p>Learn what camouflage is and how animals use it.</p> <p>Learn that there are different classifications of animals and begin to learn about their characteristics.</p> <p>Learn that animals can be herbivores , carnivores and omnivores</p> <p>Know the names of different types of animal</p> <p>Know what an oak tree and horse chestnut leaf looks like and that they produces acorns and conkers</p>	<p>Go on a camouflage butterfly hunt – consider the order they find the butterflies in. Learn about camouflage in animals.</p> <p>Pond dip – describe what they find</p> <p>Animal classification powerpoints and fact hunts on mammals, fish, reptiles and birds.</p> <p>Sort animals into herbivores , carnivores and omnivores</p> <p>Visit the donkey farm</p> <p>Visits from animals such as owls, tortoise, rabbits</p> <p>Sort themselves into different groups based on characteristics</p> <p>Oak leaf, horse chestnut leaf, acorns and conkers on display. Learn ‘Conkers’ song</p> <p>Love to investigate - Can you leap like a frog?</p> <p>How do you make bread?</p> <p>What is camouflage for?</p>	<p>Working scientifically - observing closely, using simple equipment , identifying and classifying, using their observations to suggest answers to questions</p> <p>Animals, including humans -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)</p> <p>Plants - identify and name a variety of common deciduous and evergreen trees</p>	
T2	Know the weather related to Autumn	<p>Daily weather/season chart</p> <p>Go outside on touch/sound/smell hunt</p>	Working scientifically - observing closely	

	<p>Learn what the 5 senses are</p> <p>Learn why we need our senses</p> <p>Learn which part of the body is associated with each sense.</p> <p>Know that a Christmas tree is a type of fir tree and that they sometimes have cones. Learn that some trees are deciduous and some evergreen</p>	<p>Introduce what the senses are.</p> <p>Give children a series of activities related to each of the five senses, <i>eg listen and identify sounds on tape, look at objects, such as an orange, with a magnifying glass, optical illusions, smell lemon, washing-up liquid, identify objects in a feely bag, taste salty and sweet foods.</i></p> <p>Fir cones and needles on display Love to investigate - Can you be a superhero?</p> <p>What can our hands do?</p> <p>Why do we have two eyes?</p>	<p>Seasonal changes observe and describe weather associated with the seasons</p> <p>Animals, including humans - Know which part of the body is associated with each sense.</p> <p>Plants - identify and name a variety of common deciduous and evergreen trees</p>	
T3	<p>Know the weather related to Winter</p> <p>Revise the different classification and characteristics of animals.</p> <p>Learn what an amphibian is</p> <p>Use knowledge about herbivores, carnivores and omnivores to solve a question</p>	<p>Daily weather/season chart</p> <p>Reptiles and amphibian PowerPoints and fact hunts</p> <p>Learn about teeth – what different teeth are for and that different types of animals have different teeth.</p> <p>Explore which teeth are used when eating different foods . Explore what happens when wearing a gumshield to eat</p>	<p>Seasonal changes observe and describe weather associated with the seasons</p> <p>Working scientifically - observing closely, using simple equipment ,performing simple tests , identifying and classifying , using their observations and ideas to suggest answers to questions</p> <p>Animals, including humans - identify and name a variety of common animals that are carnivores, herbivores and omnivores</p>	 <p>Dinosaur Theme Preschool Dinosaur Proj. ></p>

	<p>Know the functions of different teeth.</p> <p>Know what happens to ice as it melts and why water freezes</p> <p>Know what a holly leaf looks like and that the females have berries and the males don't. Revise that some trees are deciduous and some evergreen</p> <p>Recognise snowdrops in the school grounds</p>	<p>Make a 'dinosaur destroyed' area – look for clues as to what it could be. Examine different dinosaur 'poo' to find out if the dinosaur responsible was a herbivore, carnivore or omnivore</p> <p>Make ice windows and play with dinosaur ice eggs</p> <p>Holly leaves on display</p> <p>Regularly show the snowdrops in the school grounds and link to Snowdrop song</p> <p>Love to investigate – Why do we have teeth Whose poo?</p>	<p>describe and compare the structure of a variety of common animals (fish, amphibians, reptiles, birds and mammals including pets)</p> <p>Plants - identify and name a variety of common wild and garden plants, including deciduous and evergreen trees</p>	
T4	<p>Know the weather related to Winter and Spring</p> <p>Recognise daffodils and tulips in the school grounds</p> <p>Introduce the vocabulary related to materials and their properties – use these weekly to reinforce and learn the words</p> <p>Explore basic electrical circuits. Learn through play that a circuit must be complete to work</p>	<p>Daily weather/season chart</p> <p>Regularly show the children the daffodils and tulips in the school grounds</p> <p>Make an alien crash site. Look at objects from crash site – sort into materials and properties. Make labels for each piece of evidence found. Make a 'welcome to earth' box for the aliens – label with properties and how it can be used</p> <p>Each week concentrate on a different material and its properties – test if magnetic/float/sink/conduct electricity, waterproof, hard, soft, rough, smooth</p>	<p>Seasonal changes observe and describe weather associated with the seasons</p> <p>Working scientifically – asking simple questions and recognising that they can be answered in different ways</p> <p>identifying and classifying</p> <p>using their observations and ideas to suggest answers to questions</p>	

	<p>Make and explore stomp rockets - think about how they can make them go higher</p> <p>Consider how much waste there is in the world and what happens to waste in landfills. Begin to think about how their actions impact our planet</p>	<p>Use hula hoops to make different planets – eg glass, plastic, waterproof – get ch to sort objects into different planets</p> <p>Make a circuit send a light signal – think about what they need to do to keep the light on and how to make it brighter. Make up a code!</p> <p>Make stomp rockets</p> <p>Recycling materials – plastic sort single/multi use Reduce, reuse, recycle Decomposing materials in a transparent tank</p> <p>Love to investigate - What makes the loudest sound? How does it feel? What keeps us dry?</p>	<p>Everyday materials - distinguish between an object and the material from which it is made</p> <p>identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and rock</p> <p>describe the simple physical properties of a variety of everyday materials</p> <p>compare and group together a variety of everyday materials on the basis of their simple physical properties</p> <p>Plants - identify and name a variety of common wild and garden plants.</p>	
T5	<p>Know the weather related to Spring</p> <p>Revise the names of the four seasons and the related weather.</p>	<p>Daily weather/season chart</p> <p>Go on a Woodland walk – use a crib sheet to spot plants and collect things for the nature table</p>	<p>Working scientifically - observing closely, using simple equipment , performing simple tests , identifying and classifying , using their observations and ideas to suggest answers to questions , gathering and recording data to help in answering questions.</p> <p>Seasonal changes</p>	

	<p>Learn how the daylight hours change over the year.</p> <p>Learn the name of tree and flower parts and their functions</p> <p>Learn that plants grow from seeds and find out what they need to grow</p> <p>Recognise pansies and daisies in the school grounds</p>	<p>Dig up weeds and label parts – watch PowerPoint of diff parts of the plant and its uses</p> <p>Sort and classify objects to go on a season wheel</p> <p>Grow beans in different conditions</p> <p>Look at school weather station and make their own– inc rain gauge, wind sock, windmill, weather vane, thermometer , compass, fircone</p> <p>Seasons suitcase - pick an object from suitcase and agree which season it is for</p> <p>Shadows – make a shadow clock and draw round their shadows . What happens to the shadows during the day?</p> <p>Plant sunflowers</p> <p>Love to investigate – What’s in a bud? How wild is the wind? How do leaves change? How big is a raindrop? Does it snow in Summer? Do pine cones know it is raining? Are all leaves the same?</p>	<p>observe changes across the four seasons observe and describe weather associated with the seasons and how day length varies.</p> <p>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</p>	
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T6	<p>Know the weather related to Summer</p> <p>Know basic ways in which they change as they grow from a baby to now</p> <p>Learn/revise names for external and internal body parts and their functions</p> <p>Revise senses</p> <p>Compare animals based on their classification</p> <p>Recognise sunflowers, silver birch and willow in the school grounds</p>	<p>Daily weather/season chart</p> <p>Bring in baby photos and read 'Once there were giants'. Discuss how they have changed since they were born</p> <p>Make twigs into body shapes and label. Make an anatomy body map - what is the function of each part?</p> <p>Revise what the senses are and do senses activities</p> <p>Revise the animal classification powerpoints and demonstrate knowledge of this</p> <p>Regularly Show the children the sunflowers, silver birch and willow in the school grounds.</p> <p>Love to investigate - What can you remember? What can worms sense?</p>	<p>Working scientifically - performing simple tests</p> <p>Seasonal changes observe and describe weather associated with the seasons</p> <p>Animals inc humans - 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.</p> <p>Plants - identify and name a variety of common wild and garden plants, including deciduous and evergreen trees</p>	 
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Working scientifically

Statutory requirements During years 1 and 2, pupils should be taught to use the following practical scientific methods, processes and skills through the teaching of the programme of study content: □ asking simple questions and recognising that they can be answered in different ways □ observing closely, using simple equipment □ performing simple tests □ identifying and classifying □ using their observations and ideas to suggest answers to questions □ gathering and recording data to help in answering questions.

