

Year 1 Topic 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.

What pupils need to know or do to be secure			
Show understanding of a concept using scientific vocabulary correctly			
Key learning	Possible evidence		
Growing locally, there will be a vast array of plants which all have specific names. These can be identified by looking at the key characteristics of the plant. Plants have common parts, but they vary between the different types of plants. Some trees keep their leaves all year while other trees drop their leaves during autumn and grow them again during spring.	 Can name trees and other plants that they see regularly Can describe some of the key features of these trees and plants e.g. the shape of the 		
Key vocabulary Leaf, flower, blossom, petal, fruit, berry, root, seed, trunk, branch, stem, bark, stalk, bud Names of trees in the local area Names of garden and wild flowering plants in the local area	 leaves, the colour of the flower/blossom Can point out trees which lost their leaves and those that kept them the whole year Can point to and name the parts of a plant, recognising that they are not always the same e.g. leaves and stems may not be green 		
Common misconceptions			

Some children may think:

- plants are flowering plants grown in pots with colored petals and leaves and a stem
- trees are not plants
- all leaves are green
- all stems are green
- a trunk is not a stem
- blossom is not a flower.

	Apply knowledge in familiar related contexts, including a range of enquiries		
	Activities	Possible evidence	
•	Make close observations of leaves, seeds, flowers etc.	Can sort and group parts of plants using	
•	Compare two leaves, seeds, flowers etc.	similarities and differences	
•	Classify leaves, seeds, flowers etc. using a range of characteristics.	Can use simple charts etc. to identify plants	
•	Identify plants by matching them to named images.	Can collect information on features that	
•	Make observations of how plants change over a period of time.	change during the year	

- When further afield, spot plants that are the same as those in the local area studied regularly, describing the key features that helped them.
 Can use photogon change over time.
- Can use photographs to talk about how plants change over time



Year 1 Topic 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).
- Identify, name, draw and label the basic parts of the human body and say which part of the body is associated with each sense.

WHAT PUPILS NEED TO KNOW OR DO TO BE SECURE

Key learning	using scientific vocabulary correctly Possible evidence
Animals vary in many ways having different structures e.g. wings, tails, ears etc. They also have different skin coverings e.g. scales, feathers, hair. These key features can be used to identify them. Animals eat certain things - some eat other animals, some eat plants, some eat both plants and animals. Humans have key parts in common, but these vary from person to person. Humans (and other animals) find out about the world using their senses. Humans have five senses – sight, touch, taste, hearing and smelling. These senses are linked to particular parts of the body. Key vocabulary Mead, body, eyes, ears, mouth, teeth, leg, tail, wing, claw, fin, scales, feathers, fur, beak, paws, hooves Names of animals experienced first-hand from each vertebrate group Parts of the body including those linked to PSHE teaching (see joint document produced by the ASE and PSHE Association) Senses – touch, see, smell, taste, hear, fingers (skin), eyes, nose, ear and tongue	 Can name a range of animals which includes animals from each of the vertebrate groups Can describe the key features of these named animals Can label key features on a picture/diagram Can write descriptively about an animal Can write a What am I? riddle about an animal Can describe what a range of animals eat Can play and lead 'Simon says' During PE lessons, can follow instructions involving parts of the body Can label parts of the body on pictures and diagrams Can explore objects using different senses
N.B. The children need to be able to name and identify a range of animals in each group e.g. name specific birds and fish. They do not need to use the terms mammal, reptiles etc. or know the key characteristics of each, although they will probably be able to identify birds and fish, based on their characteristics.	

The children also do not need to use the words carnivore, herbivore and	
omnivore. If they do, ensure that they understand that carnivores eat other	
animals, not just meat.	
Although we often use our fingers and hands to feel objects, the children	
should understand that we can feel with many parts of our body.	
	isconceptions
Some children may think:	
only four-legged mammals, such as pets, are animals	
humans are not animals	
• insects are not animals	
all 'bugs' or 'creepy crawlies', such as spiders, are part of the insect group	
amphibians and reptiles are the same.	
Apply knowledge in tamiliar related (contavte including a rango at anguiriae
	ontexts, including a range of enquiries
Activities	Possible evidence
 Activities Make first-hand, close observations of animals from each of the groups. 	Possible evidence Can sort and group animals using similarities and differences
Activities Make first-hand, close observations of animals from each of the groups. Compare two animals from the same or different groups.	Possible evidence Can sort and group animals using similarities and differences Can use simple charts etc. to identify unknown animals
 Activities Make first-hand, close observations of animals from each of the groups. Compare two animals from the same or different groups. Classify animals using a range of features. 	Possible evidence Can sort and group animals using similarities and differences Can use simple charts etc. to identify unknown animals Can create a drawing of an imaginary animal labelling its key features
 Activities Make first-hand, close observations of animals from each of the groups. Compare two animals from the same or different groups. Classify animals using a range of features. Identify animals by matching them to named images. 	Possible evidence Can sort and group animals using similarities and differences Can use simple charts etc. to identify unknown animals Can create a drawing of an imaginary animal labelling its key features Can use secondary resources to find out what animals eat, including
 Activities Make first-hand, close observations of animals from each of the groups. Compare two animals from the same or different groups. Classify animals using a range of features. Identify animals by matching them to named images. Classify animals according to what they eat. 	Possible evidence Can sort and group animals using similarities and differences Can use simple charts etc. to identify unknown animals Can create a drawing of an imaginary animal labelling its key features Can use secondary resources to find out what animals eat, including talking to experts e.g. pet owners, zookeepers etc.
 Activities Make first-hand, close observations of animals from each of the groups. Compare two animals from the same or different groups. Classify animals using a range of features. Identify animals by matching them to named images. 	Possible evidence Can sort and group animals using similarities and differences Can use simple charts etc. to identify unknown animals Can create a drawing of an imaginary animal labelling its key features Can use secondary resources to find out what animals eat, including talking to experts e.g. pet owners, zookeepers etc. Can use first-hand close observations to make detailed drawings
 Activities Make first-hand, close observations of animals from each of the groups. Compare two animals from the same or different groups. Classify animals using a range of features. Identify animals by matching them to named images. Classify animals according to what they eat. Make first-hand close observations of parts of the body e.g. hands, eyes. 	Possible evidence Can sort and group animals using similarities and differences Can use simple charts etc. to identify unknown animals Can create a drawing of an imaginary animal labelling its key features Can use secondary resources to find out what animals eat, including talking to experts e.g. pet owners, zookeepers etc. Can use first-hand close observations to make detailed drawings Can name body parts correctly when talking about measurements and
 Activities Make first-hand, close observations of animals from each of the groups. Compare two animals from the same or different groups. Classify animals using a range of features. Identify animals by matching them to named images. Classify animals according to what they eat. Make first-hand close observations of parts of the body e.g. hands, eyes. Compare two people. 	 Can sort and group animals using similarities and differences Can use simple charts etc. to identify unknown animals Can create a drawing of an imaginary animal labelling its key features Can use secondary resources to find out what animals eat, including talking to experts e.g. pet owners, zookeepers etc. Can use first-hand close observations to make detailed drawings Can name body parts correctly when talking about measurements and comparisons e.g. "My arm is x straws long." "My arm is x straws long and
 Activities Make first-hand, close observations of animals from each of the groups. Compare two animals from the same or different groups. Classify animals using a range of features. Identify animals by matching them to named images. Classify animals according to what they eat. Make first-hand close observations of parts of the body e.g. hands, eyes. 	Possible evidence Can sort and group animals using similarities and differences Can use simple charts etc. to identify unknown animals Can create a drawing of an imaginary animal labelling its key features Can use secondary resources to find out what animals eat, including talking to experts e.g. pet owners, zookeepers etc. Can use first-hand close observations to make detailed drawings Can name body parts correctly when talking about measurements and

- Look for patterns between people e.g. Do people with big hands have big feet?
- Classify people according to their features.
- Investigate human senses e.g. Which part of my body is good for feeling, which is not? Which food/flavours can I identify by taste? Which smells can I match?
- and these have blue."
- Can talk about their findings from investigations using appropriate vocabulary e.g. "My fingers are much better at feeling than my toes" "We found that the crisps all taste the same."



Year 1 Topic 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.

WHAT PUPILS NEED TO KNOW OR DO TO BE SECURE		
Show understanding of a concept	ing scientific vocabulary correctly	
Key learning	Possible evidence	
All objects are made of one or more materials. Some objects can be made from different materials e.g. plastic, metal or wooden spoons.	 Can label a picture or diagram of an object made from different materials Can describe the properties of different materials 	
Materials can be described by their properties e.g. shiny, stretchy, rough etc. Some materials e.g. plastic can be in different forms with very different properties.		
Key vocabulary		
Object, material, wood, plastic, glass, metal, water, rock, brick, paper, fabric, elastic, foil, card/cardboard, rubber, wool, clay, hard, soft, stretchy, stiff, bendy, floppy, waterproof, absorbent, breaks/tears, rough, smooth, shiny, dull, see-through, not see-through		
Common m	isconceptions	

Some children may think:

- only fabrics are materials
- only building materials are materials
- only writing materials are materials
- the word 'rock' describes an object rather than a material
- 'solid' is another word for hard.

Apply knowledge in familiar related contexts, including a range of enquiries		
Activities	Possible evidence	
 Classify objects made of one material in different ways e.g. a group of object made of metal. 	 Can sort objects and materials using a range of properties Can choose an appropriate method for testing an object for a particular 	
 Classify in different ways one type of object made from a range of materials e.g. a collection of spoons made of different materials. Classify materials based on their properties. 	 property Can use their test evidence to answer the questions about properties e.g. "Which cloth is the most absorbent?" 	

 Test the properties of objects e.g. absorbency of cloths, strength of party hats made of different papers, stiffness of paper plates, waterproofness of shelters. 	
---	--



Year 1 Topic Seasonal changes

- Observe changes across the four seasons.
- Observe and describe weather associated with the seasons and how day length varies.

What pupils need to know or do to be secure		
Show understanding of a concept	using scientific vocabulary correctly	
Key learning	Possible evidence	
In the UK, the day length is longest at mid-summer (about 16 hours) and gets shorter each day until mid-winter (about 8 hours) before getting longer again. The weather also changes with the seasons. In the UK, it is usually colder and rainier in winter, and hotter and dryer in the summer. The change in weather causes many other changes. Some examples are: numbers of minibeasts found outside; seed and plant growth; leaves on trees; and type of clothes worn by people.	 Can name the four seasons and identify when in the year they occur Can describe weather in different seasons over a year Can describe days as being longer (in time) in the summer and shorter in the winter Can describe other features that change through the year 	
Key vocabulary		
Weather (sunny, rainy, windy, snowy etc.)		
Seasons (winter, summer, spring, autumn)		
Sun, sunrise, sunset, day length		
Common m	isconceptions	

Some children may think:

- it always snows in winter
- it is always sunny in the summer
- there are only flowers in spring and summer
- it rains most in the winter.

	Apply knowledge in familiar related contexts, including a range of enquiries		
	Activities		Possible evidence
•	Collect information about the weather regularly throughout the year.	•	Use the evidence gathered to describe the general types of weather and
•	Present this information in tables and charts to compare the weather		changes in day length over the seasons.
	across the seasons.	•	Use their evidence to describe some other features of their surroundings,
•	Collect information, regularly throughout the year, of features that		e.g. themselves, animals, plants that change over the seasons
	change with the seasons e.g. plants, animals, humans.		

- Present this information in different ways to compare the seasons.
- Gather data about day length regularly throughout the year and present this to compare the seasons.
- Demonstrate their knowledge in different ways e.g. making a weather forecast video, writing seasonal poetry, creating seasonal artwork