

Subject - Science     Topic name - Animals     Year group 1     Term - Autumn
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**Prior Knowledge** Children know about similarities and differences in relation to places, objects, materials and living things. They talk about the features of their own immediate environment and how environments might vary from one another. They make observations of animals and plants and explain why some things occur and talk about changes. (Early Learning Goal)

Key vocabulary	Key Vocabulary							
	amphibians	Amphibians live in the water as babies and on land as they grow older. They have smooth, slimy skin.						
	birds	All birds have a beak, two legs, feathers and wings.						
	fish	Fish live and breathe under water. They have scaly skin, fins to help them swim and they breathe through gills.						
	mammals	Mammals are animals that breathe air, grow hair or fur and feed on their mother's milk as a baby.						
	reptiles	All reptiles breathe air. They have scales on their skin.						
	carnivore	Animals that mostly eat other animals (meat) are carnivores.						
	herbivore	Animals that only eat plants are herbivores.						
	omnivore	Animals that eat both plants and other animals are omnivores.						

#### Possible experiences

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. Skills to be taught Ask simple questions and recognise they can be answered in different ways Observe closely, using simple equipment Perform simple tests Identify and classify

#### Key Knowledge

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.

#### 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.





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materials and livir of their own imme environments mig observations of a	ferences in r g things. The diate enviror ht vary from imals and pla	elation to places, objects, ey talk about the features	Ask simp can be a Observe Perform	o be taught ble questions and rec inswered in different closely, using simple simple tests and classify	ways	person to person. about the world u senses – sight, to	e parts in common, but these vary fro Humans (and other animals) find ou sing their senses. Humans have five uch, taste, hearing and smelling. linked to particular parts of the body
Key vocabula	rv Key Vocab	ulary	Pictures	/maps/images			n use our fingers and hands to feel
,	sight	Your eyes let you see all the things around you.	Senses	Parts of the B	ody	objects, the childr with many parts of	ren should understand that we can fe
	hearing	Your ears let you listen to all the things around you. Your brain is able to tell what different sounds are.		head			Cience Our Senses
	touch	Your skin gives you the sense of touch. You can tell if something is warm, cold, smooth or rough without even looking at it!	sight		eye		
	taste	Your sense of taste comes from your tongue. You can tell if something tastes bitter or sweet. You might have some tastes you like and some you don't.	hearing	mouth	nose	Nhy?	
	smell	You smell using your nose. Your nose can tell if things smell nice or not nice.		shoulder	elbow	Who?	
Compare parts of their Look for patterns betw hands have big feet? Classify people accord Investigate human ser	f the body e.g. ake measurem own body. een people e.g ng to their feat ses e.g. Which	hands, eyes. ents of parts of their body. . Do people with big	touch	hand fingers leg foot	thumb knee toes	When the second se	



	Subject - Sc	ience		Topic nam Everyday I		Year grou	р 1	Term -Autumn/Spring
similarit materia of their environ observa some th Learnin	- /	to places, o about the fe ind how other. They d explain wl	make hy	Ask simple can be an Observe c Perform si	be taught e questions and reco swered in different losely, using simple imple tests nd classify Pictures/maps/	ways equipment	objects can be plastic, metal Materials can shiny, stretch	edge e made of one or more materials. Some e made from different materials e.g. or wooden spoons. be described by their properties e.g. y, rough etc. Some materials e.g. plastic erent forms with very different properties
Key	vocabulary				Fictures/maps/	mayes	Materia	nls:
Key Vocabula		Key Vocabulary				Y III III IIII		
object	A thing that can be used. For example a door, chair, car, table are all objects.	smooth	Smooth objects	have no lumps or bumps.				
naterial	Materials are what an object is made from.	bendy		in be folded easily.		Et De Prese		
ard	Not easily broken or bent.	not bendy	If something is folded easily.	not bendy, it can't be	paper books	brick houses	p	lastic wood metal
oft	If something is soft, it is easy to cut, fold or change the shape of.	waterproof	If something is out. It keeps this	waterproof, it keeps water ngs dry.				
stretchy	Can be pulled to make it longer or wider without breaking.	not waterproof	Not waterproof	materials let water in.		Com		
hiny	Reflects light easily.	absorbent		bsorbent, it soaks water up.	E ED	030		
dull	Doesn't reflect light. Doesn't look bright or shiny.	not absorbent	soak up water.	not absorbent, it does not	fabric clothing	stepping stones		vater glass
rough	If something is rough, it feels and looks uneven or bumpy.	transparent	-	ects can be seen through. can't be seen through.				guos j
Classify ob metal. Classify in collection Classify m Test the p	Ie experiences jects made of one material in differ different ways one type of object n of spoons made of different materia aterials based on their properties. roperties of objects e.g. absorbency apers, stiffness of paper plates, wal	hade from a ra lls. v of cloths, str	a group of o ange of mater	bject made of rials e.g. a	plastic toys	wooden furniture		aper brick fabric



		Subject - Science	Topic name - Plants	Year group 1	Term -Summer
simila mater of the enviro obser some	rities and rials and li eir own im onments n vations of	Viedge Children know about differences in relation to places, objects, ving things. They talk about the features mediate environment and how night vary from one another. They make animals and plants and explain why cur and talk about changes. (Early I)	Skills to be taught Ask simple questions and red can be answered in different Observe closely, using simple Perform simple tests Identify and classify	cognise they t ways e equipment	Key Knowledge 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 type of plants. Some trees keep their leaves all year while other trees drop their leaves during autumn and grow them again during spring.
(ey '	vocabu	Ilary	Pictures/maps/images		dandelion daisy buttercup nettles
Poes	Key Vocabu roots stem leaves flowers petals fruit seed bulb	larg   Roots take in water and nutrients from the soil and keep the plant in the ground.   The stem holds the plant up and carries the water and nutrients from the roots to the leaves and flowers.   Leaves catch sunlight to help the plant to make its own food.   Flowers attract insects and birds.   Petals are the colourful part of the flower.   Fruit contains the plant's seeds. Sometimes humans try to grow fruit without seeds because it's easier to eat.   Seeds grow into new plants.   Bulbs grow into new plants.	Key Knowledge		ivy   ivit
Make c Compa Classify charact dentify Make o Vhen f he loca	lose observa re two leaves / leaves, see teristics. y plants by r bbservations further afield	Actions of leaves, seeds, flowers etc. eds, flowers etc. eds, flowers etc. using a range of matching them to named images. of how plants change over a period of time. d, spot plants that are the same as those in lied regularly, describing the key features			cedar horse chestrut ook   image: set of the set of



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	Subject - Science Topic name - Se changes					Year group 1					Term - Autumn/ Spring/Summer				
Prior Knowledge Children know about similarities and differences in relation to places, objects, materials and living things. They talk about the features of their own immediate environment and how environments might vary from one another. They make observations of animals and plants and explain why some things occur and talk about changes. (Early Learning Goal)			Ask simple questic can be answered Observe closely, u Perform simple te	Skills to be taught Ask simple questions and recognise they can be answered in different ways Observe closely, using simple equipment Perform simple tests Identify and classify					Key Knowledge     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;						
Key vocat	webset, yong an under, yong an under, yong an under, yong an under, yong an under yong and under yong a	The second secon	spring			nmer			on trees; aut Sept Oct	and type	e of cloth		by people 15 wi Dece Jan		owth;
be from any location (theory books) (theory books) and the starts alight be given and you may be they around a like lambe account if the daylaters start to a part to start. In the start of the daylaters is a start of the start of the start of the start of the start of the start of the start of the start of the start of the start of the start								M A	<b>ring</b> arch pril 1ay			Ju	nmer une uly gust		
Present this information in tables and charts to compare the weather across the seasons.		Daylight hours eac	h month	:											
Collect information, regularly throughout the year, of features that 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			Month Hours of <mark>Daylight</mark>	Sept 13	Oct 11	Nov 9	Dec 8	Jan 8	Feb 10	Mar 12	Apr 14	May 15	June 16	July 16	Aug 14