Subject: Science -Biology								
Year group: 1			Unit of Learning: Animals including humans (Human body and senses)					
Prior Learning			Future Learning:					
Children	know about similari	ties and differences in relation to object	cts,	In Year 2 pupils will learn that animals, including humans, have offspring which				
materials	and living things. I	ney talk about the features of their on	/n	grow into adults; to describe the basic heeds of animals, including humans, for				
another	e environment and r They make observa	tions of animals and plants and explain u	why	amounts of different types of food, and hydiene				
some thir	nas occur and talk o	ibout changes	vity	In Key stage 2 they will learn about the skeletomuscular system digestive				
30110 1111				system and the circulatory system as well as life processes such as				
				reproduction, nutrition and growth				
	-		A	Autumn 1				
Theme	Learning	Substantive Knowledge	Suggested Activity					
	Objective							
	What are the	To know that the human body has	Using peer coaching allow children to have a go a labelling an outline of the human body. Circulate and discuss explanations and misconceptions. * take photos to stick in					
	different parts	hair						
Session	of our body	head / face	books					
1	called?	neck	Watch https://www.bbc.co.uk/bitesize/topics/z9yycdm/articles/zqhbr82					
2 hour	lo identify,	shoulders	Play	'Simon says'				
	name, draw and	arm	Pupil	is label a diagram of the human body				
	label the basic	elbow						
	burnen body	fincen						
	numun bouy	hody / torso						
		stomach						
		hips/pelvis						
		legs						
		knee						
		foot feet						
		toe toes						

Session 2 1 hour	 What are our five senses and which body parts does each sense use? To say which part of the body is associated with each sense 	To know that we have 5 senses; hearing, sight/seeing, taste, smell and touch. To know that our sense of sight is associated with our eyes; our sense of hearing is associated with our ears, our sense of taste is associated with our tongue, or sense of smell is associated with our nose and our sense of touch is associated with our skin	Introduce to concept of senses using this clip from BBC Bitesize <u>https://www.bbc.co.uk/bitesize/topics/z9yycdm/articles/zxy987h</u> Either in small groups or whole class explore with the children how their senses help them. Challenge pupils to identify items using their senses Such as giving each child a chocolate button when their eyes are closed Letting them handle an ice cube with their eyes closed Smelling an orange with their eyes closed Identifying an instrument with their eyes closed. Identifying a mystery object inside a feely bag. Discus how easy / difficult that was.
Session 3 1 hour	What are our five senses and which body parts does each sense use? To say which part of the body is associated with each sense		What body part did they use? Using photographs from the practical senses session Pupils write a simple sentence We can taste with our mouths/tongue We can smell with our nose Our eyes help us to see Or label photographs with the sense and the body part EXT/GD- How do your senses help you get ready for school/ cross the road /learn? What can be done if you sense of sight is impaired?
Session 4 1 hour	How are bodies different? What are disabilities?	To know that sometimes peoples senses don't work as well as they should and this is known as a disability. To know being deaf or blind are disabilities associated with the senses of hearing and sight.	Explain that although most bodies have the same parts they can often look different or work differently. Sometimes people's body parts don't work as well as they should and this is called a disability. When you have a disability you might need special equipment or medicine to help you. Watch <u>https://www.youtube.com/watch?v=q4sGcaA6bFk</u> - ONLY UP TO 3.25 VI workshop

	To know that there are things we can do to help people with disabilities live life in the same way people without disabilities live.	
Session	ASSESSMENT	Teacher focus group.
4		Play Simon says touch your to assess whether pupils can identify the different
1 hour	Key Assessment Criteria	parts of our body called
	To know the name and position of the	What are our five senses and which body parts does each sense use?
	different parts of the human body.	Observe children matching senses cards to sensory oragan card
	To know the 5 senses and the body	Discuss How does this sense help you? How does you sense of sight help you stay
	parts associated with each one.	safe? What sound can you hear? Etc.
		Assessment Carousel
		Prepare range of activities that pupils can attempt independently to recap and consolidate learning. This could include
		1 Togeting and classifying fruits (harring
		2 Labelling his bedies
		2- Labelling big boales
		3- Draw a picture with a bilinatola on. (provide pupils with a simple picture they
		nave to look at, memorise and copy blindfolded)
		4- Feely bags - identify the missing object
		5- provision

'Forest	What is	To know that in the UK we have four	Regular walks into the school environment at different points throughout the year.
Friday'	happening in our	seasons spring, summer autumn and	Describe the weather today
	school	winter.	What do you notice?
Ongoing	environment in		What has changed since our last walk?
learning	Autumn?	To know that in autumn the days	What do you think we will see on our next walk?
through	WS - To observe	become shorter ; the temperature	
out the	closely, using simple	becomes cooler: leaves begin to	Measure temperature /rainfall on frequent walks / record /create a line graph
vear	equipment	change colour and fall from the	(whole class or individual) and compare to prediction Look at changes to flora and
/ ••••	w5 - 10 ask simple	trees plants are dving and some	found Identify common wild and oarden plants and trees
	recognising that they	plants will be spreading their seeds	
	can be answered in	ready from next spring	Keep a simple observational diary
	different ways	reddy from hext spring.	Reep a simple observational and y.
	WS - To observe	The suturn some enimels will be	The weather was
	closely, using simple	allesting food to lost them through	The weather was
	WS - To use	the winter others will be managing	The terms we true
	observations and ideas	the winter, others will be preparing	The temperature
	to suggest answers to	to hibernate and some will migrate	
	questions	to warmer places	L saw
	ws - To gather and	Key Assessment Criteria	
	in answering questions	To know the seasonal changes that	I noticed
	To observe changes	take place in autumn including	
	across the four	identifying deciduous and evergreen	Things that had changed
	seasons	trees.	•
	To observe and		•
	associated with the		•
	seasons and how day		Next time I think
	length varies.		I would like to find out
	To identify and name a		
	variety of common wild		
	ana garden plants,		
	evergreen trees		



Subject:	Subject: Science -Chemistry						
Year group: 1			Unit of Learning: Everyday Materials (Toys -History)				
Prior Learning			Future Learning:				
Children I	know about similaritie	es and differences in relation to objects	In Year 2 pupils will learn to identify and compare the suitability of a variety of				
materials	and living things. The	ey talk about the features of their own	everyday materials, including wood, metal, plastic, glass, brick, rock, paper and				
immediat	e environment and ho	w environments might vary from one	cardboard for particular uses and find out how the shapes of solid objects				
another.	They make observation	ons of animals and plants and explain wh	y made from some materials can be changed by squashing, bending, twisting and				
some thir	ngs occur, and talk ab	out changes.	stretching.				
			In key stage 2 they will learn about rocks, states of matter and how materials				
			can be changed.				
			Autumn 2				
Theme	Learning	Substantive Knowledge	Suggested Activity				
	Objective						
	What are things	To know that objects are made	Explain that we use materials to make objects.				
	made of?	from materials .	Designers choose the best material for job that they				
Session	 To distinguish 	To know that the most common	want the object to do.				
1	between an	materials are: wood					
2 hour object and the plastic You		plastic	You wouldn't want a teapot made of chocolate or a				
	material from	glass	duvet made of metal or a bed made out of bricks				
	which it is	metal					
	made.	water	Pupils go on a discovery walk around school – listing /				
		rock	drawing objects made from wood, plastic, glass, metal, brick, fabric				
		brick					
		paper					
		fabric					
	What are things	I o know the characteristic of	 Provide pupils with a range of toys made from different materials. 				
	made of?	common materials: wood	 Pupils sort the toys based on what they are made from. 				
	To identity and	plastic	Iake photos for books				
Session	name a variety of	glass	Finish by asking children why did the designer choose tabric to make a teddy bear				
2	everyday	metal	or plastic for Duplo bricks				
1 hour	materials,	water					

Session 3 1 hour	including wood, plastic, glass, metal, water, and rock What are materials like? To describe the simple physical properties of a variety of everyday materials	rock brick paper fabric in order to identify them. To know that materials have different properties. To know properties of material help us to describe them. To know the meaning of the words: strong weak flexible rigid transparent translucent opaque soft hard waterproof absorbent shiny dull stretchy	Look at the new vocabulary on flash cards and explain that these words can be used to describe the materials. Most words can be organised into pairs of opposites The opposite of strong is weak etc. Choose an object such as a ruler Is this strong or weak? Flexible or rigid? Transparent, translucent or opaque? Using photographs of the toys from the previous session pupils identify what a toy is made from and what the properties of that material is. They may also include other relevant adjectives - bright - colourful etc. E.g Teddy bear Fabric Flexible Opaque Soft
		stretchy smooth	Soft
Session 4 1 hour	What would be the best material to keep teddy dry?	To know that some materials do certain jobs better than others. To know that designers choose materials based on whether they will be good at the job they have to do.	Pupils plan and carryout an investigation to test with materials would be best to make a coat for teddy Teddy needs a raincoat. Rabbit gives him some paper, fabric and some plastic but he doesn't know which will be best to make a coat -He takes the paper then places it



ASSESSMENT	Teacher focus aroun
	What are things made of 2
	what are mings made of?
Key Assessment Criteria	What are materials like?
To know the names of different	Working with a small group. Place a tuff tray with a range of
everyday materials.	items made from different materials in front of the children. Ask
To know some properties of	them to select something made of wood
different everyday materials.	Ask them to select something that is soft waterproof rigid
	Assessment Carousel
	Prepare range of activities that pupils can attempt independently
	to recap and consolidate learning. This could include
	1- Sorting objects by material
	2- Sorting objects by property
	3- Feely bags - what is it made from?
	4- Matching what materials would you use to make a raincoat
	/ chair / blanket
	5- provision

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Subject: Sc	ience -Biology						
Year group: 1 Unit of Learning: Animals including Humans			Unit of Learning: Animals including Humans				
Prior Learning			Future Learning:				
Children know about similarities and differences in relation to objects,			In Year 2 pupils will learn to identify the differences between things that are				
materials ar	nd living things. They	y talk about the features of their own	living, dead, and things that have never been alive. They will learn that most				
immediate e	nvironment and how	environments might vary from one	living things live in habitats to which they are suited and describe how				
another. Th	ey make observation	ns of animals and plants and explain why	different habitats provide for the basic needs of different kinds of animals				
some things	occur, and talk abo	ut changes.	and plants, and how they depend on each other, including how animals, obtain				
			their food from plants and other animals, using the idea of a simple food				
			chain.				
			Spring 1				
Theme	Learning	Substantive Knowledge	Suggested Activity				
	Objective		Vocabulary and Discovery				
	What makes	To know that animals can be grouped					
	some animals	in different ways.	Uses small world animals and direct them to sort them into their own groups and				
Session 1	different to	To know animals can be grouped by	discuss how they have sorted them.				
2 hour	other animals?	what they eat					
		carnivore, herbivore, omnivore.	Begin to introduce the new vocabulary by asking them to sort them into certain				
	WS - To	To know that carnivores eat meat	groups				
	identify and	(other animals), herbivores eat	- birds/not bird				
	classify animals	plants and omnivores eat both meat	 animals that live in the UK / animals that don't 				
		(animals) and plants	- animals that live in the arctic / animals that don't				
		To know that animals with a	- carnivores /herbivores / omnivores				
		backbone (vertebrates) can be					
		grouped into mammals, birds,					
		reptiles, amphibians, and fish.					
	What are the	To know that mammals, birds ,	Sort characteristics of each animal group - Kagen				
	different types	reptiles, amphibians, and fish have	https://www.bbc.co.uk/bitesize/topics/z6882hv				
	of animal?	certain characteristics that help us	Birds				
Session 2	What type of	to group them.	Not all birds can fly, but they do all have wings.				
1 hour	animal is this?	To know that birds have	Birds have beaks that help them catch and swallow food.				

	How can we identify which group an animal belongs to? What are the characteristics of birds? What ae the characteristics of reptiles? To identify and name a variety of common animals specifically reptiles, birds and mammals	 wings a beak two legs lungs to breath To know birds are warm blooded and their babies hatch out of the eggs they lay. To know that reptiles have 4 legs or no legs scales lungs to breath To know reptiles are cold blooded and their babies hatch out of the eggs they lay. To know that warm-blooded animals can keep their body temperature the same no matter if it's hot or cold. To know that cold-blooded animals' body temperature depends on the temperature around them. 	Baby birds are born in eggs. Warm blooded. They have two legs. They breathe through lungs Reptile They are cold-blooded. Baby reptiles are born in eggs. They have four legs except for snakes. They breathe through lungs Their bodies are covered in scales Warm-blooded ANIMALS Sody temperature strugs the some when its cold or hot outside. Body temperature depends on whether its cold or hot outside.
Session 3 1 hour	What is a carnivore, herbivore and omnivore? Which animals are carnivores?	To know animals can be grouped by what they eat carnivore, herbivore, omnivore. To know that carnivores eat meat (other animals), herbivores eat	Clarify the terms <u>Carnivore, Herbivore, Omnivore</u> Give children pictures or small world figures and ask them to sort them into Carnivore, herbivore omnivore Pupils use a Venn diagram to sort animals

Which animals are herbivores? Which animals are omnivore? To identify and name a variety of common animals that are carnivores, herbivores and omnivores	plants and omnivores eat both meat (animals) and plants	Herbivore (p	nnivore -	Carniv	vore (mec	1†)		
Session 4 1 hourWhat characteristic do birds and reptiles have? What are their similarities? What are their differences? Do they share characteristics? To describe and compare the structure of a variety of common animal's reptiles, birds and mammals, including pets)	To know that birds have • wings • a beak • two legs • lungs to breath To know birds are warm blooded and their babies hatch out of the eggs they lay. To know that reptiles have • 4 legs or no legs • scales • lungs to breath To know reptiles are cold blooded and their babies hatch out of the eggs they lay. To know that warm-blooded animals can keep their body temperature the same no matter if it's hot or cold. To know that cold-blooded animals' body temperature depends on the temperature around them	Pupils create birds and a r while, in the looked at Warm blood or cold blood? Type of body covering? Live birth or hatch from egg? Feeds young with milk Has a skeleton Breathes with lungs or gills?	Puh	file using v ou have ch d, pets, ch	video clip nosen bas haracters	s, photoged on pulsin your	graphs an pil intere: class tex	nd information texts on a st, animals you have seen it or other books you have

ASSESSMENT WEEK	Assessment Carousel
Key Assessment Criteria	Prepare range of activities that pupils can attempt
To know the key physical features	independently to recap and consolidate learning. This could
and characteristics of reptiles and	include
birds.	1. Labelling animals (cut and stick)
To know the meaning of the terms	2. Identifying animals using classification keys
carnivore, herbivore and omnivore	3. Sorting animals
	4. Small world animals and habitats
	Focus group
	Give each pupil a selection of small world animals and ask them
	to so <mark>rt the</mark> m however they wish and explain what they have
	done. Now ask them to sort them according to your criteria.
	Choose two animals for each child and ask children to identify
	them and classify them as a mammal, bird or reptile. How did
	they know? What else can they tell you?
	Put the small world animals in the middle of the table and ask
	each child to select a herbivore, omnivore or carnivore.

'Forest	What is	To know that in the UK we have four	Regular walks into the school environment at different points throughout the
Friday'	happening in our	seasons spring summer autumn and	vegr
() ady	school	winter	Describe the weather today
Oncoino	onvironment in		What do you notico?
Ungoing		T 1	what do you notice?
learning	spring?	To know that in Winter the days	What has changed since our last walk?
throughout	WS - To observe	become even shorter ; the	What do you think we will see on our next walk?
the year	closely, using simple	temperature becomes very cold;	Measure temperature /rainfall on frequent walks / record /create a line graph
	WS - To ask simple	deciduous trees will have no leaves,	(whole class or individual) and compare to prediction. Look at changes to flora and
	questions and	many plants will be dead	fauna. Identify common wild and garden plants and trees
	recognising that they		, , , , , , , , , , , , , , , , , , , ,
	can be answered in	Th winten you won't see many	Keep a simple observational diary
	different ways	animala some enimals will hibernate	The weether wee
	WS - To observe	animais, some animais will hiberhate	The weather was
	closely, using simple	and some will have migrate to warmer	
	equipment	places	The temperature
	ws - 10 use		
	ideas to suggest	Key assessment Criteria	I saw
	answers to questions	To know seasonal changes that take	
	WS - To gather and	place in early spring including	I noticed
	recording data to	identifying plants and flowers	
	help in answering	identifying plants and flowers.	Things that had shanced
	questions		Things that had changed
	To observe changes		•
	across the four		•
	To observe and		•
	describe weather		Next time I think
	associated with the		I would like to find out
	seasons and how day		
	length varies.		
	To identify and name		
	a variety of common		
	wild and garden		
	plants, including		
	everagen trees		
	a variety of common wild and garden plants, including deciduous and evergreen trees		



Subject:	Subject: Science -Chemistry			
	Year group: 1			Unit of Learning: Material (household items past and present History)
Prior Leo	arning know about similarit	ties and differences in relation to	objecte materiale	Future Learning:
Children Know about similarities and differences in relation to 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.			variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses and find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching. In key stage 2 they will learn about rocks, states of matter and how materials can be changed.	
			Spring 2	
Theme	Learning Objective	Substantive Knowledge	Suggested Activity	
Session 1 2 hour	 What are things made of? To distinguish between an object and the material from which it is made. 	To know that objects are made from materials. To know that the most common materials are: wood plastic glass metal water rock brick paper fabric	 Provide pupils with a range of household objects made from different materials. Pupils sort them based on what they are made from. Take photos for books What did they notice? What were most things made from? Compare items from the past and the present 	
Session 2 1 hour	Are all materials the same? How are they similar? How are they different?	To know that materials have different properties . To know properties of material help us to describe them. To know the meaning of the words:	Ask Are all materials th How are they simila How are they diffe	ne same? nr? rent?

	What are the properties of different materials? • To describe the simple physical properties of a variety of everyday materials	strong weak flexible rigid transparent translucent opaque soft hard waterproof absorbent shiny dull stretchy smooth To know that some materials do certain jobs better than others. To know that designers choose materials based on whether they will be good at the job they have to do.	Recap vocabulary on flash cards and explain materials. Most words can be organised into pairs of a The opposite of strong is weak etc. Pupils assign properties to the materials us Pupils complete statements about the house 'The sweeping brush in made from wood bea 'The sweeping brush in made from wood. Wo GD- Wood is good for making sweeping brushes	n that these words can be used to describe the opposites ed to make different household items. ehold items. cause it is rigid.' ood is strong and rigid.' because it is strong, rigid and smooth.
Session 3 1 hour	How can we sort these items based on their properties? What do you notice about your sorting diagram?	To know the meaning of the words: strong weak flexible rigid transparent translucent	Using photographs of the household items sorting diagrams based on the properties o Flexible Cloth Mop head	from the past and present pupils complete f materials used. Rigid Sweeping brush bucket
		opaque		

	Can you seen any patterns, similarities or differences? To compare and group together a variety of	soft hard waterproof absorbent shiny dull stretchy	
	everyday	smooth	Waterproof Absorbent
	materials on the		
	basis of their		
	simple physical		
	properties.		
		ASSESSMENT	Assessment Carousel
		To know some properties of	Prepare range of activities that pupils can attempt independently to recap and consolidate
Session		different everyday materials.	learning. This could include
4		To know why objects have been	1- Sorting objects by material
1 hour		made from certain materials.	2- Sorting objects by property (Two properties - Venn diagram)
			3- Feely bags - what is it made from? How did you know?
			4- Explaining why objects have been made from certain items wellies / blanket
			5- provision

'Forest Friday'	What is happening in our school	To know that in the UK we have four seasons spring, summer autumn and Spring	Regular walks into the school environment at different points throughout the year. Describe the weather today
Ongoing	environment in		What do you notice?
learning throughout the year	spring? WS - To observe closely, using simple equipment WS - To ask simple questions and recognising that they can be answered in	To know that in spring the days become longer ; the temperature becomes warmer ; deciduous trees will start to blossom or bud , plants will be start to grow In spring , animals will become more	What has changed since our last walk? What do you think we will see on our next walk? Measure temperature /rainfall on frequent walks / record /create a line graph (whole class or individual) and compare to prediction. Look at changes to flora and fauna. Identify common wild and garden plants and trees Keep a simple observational diary.
	different ways WS - To observe closely, using simple	active, hibernating animals will wake up and some animals that migrated will	The weather was
	equipment WS - To use	start to return	The temperature
	observations and ideas to suggest answers to questions WS - To gather and recording data to help in answering questions To observe changes across the four seasons To observe and describe weather associated with the seasons and how day	<u>Key Assessment Criteria</u> To know some season changes that take place during spring, including how the weather is changing and how daytime is increasing.	I saw I noticed Things that had changed • • • • • • • • • • • • • • • • • • •
	length varies. To identify and name a variety of common wild and garden plants, including deciduous and evergreen trees		



Subject:	Subject: Science -Physics			
Year group: 1			Unit of Learning:	
Prior Lea	rning		Future Learning:	
Children	know about similarit	ies and differences in relation to objects,	In Year 2 pupils will learn to identify the differences between things that are	
materials	and living things. T	hey talk about the features of their own	living, dead, and things that have never been alive. They will learn that most	
immediat	e environment and h	now environments might vary from one	living things live in habitats to which they are suited and describe how	
another.	They make observat	tions of animals and plants and explain why	different habitats provide for the basic needs of different kinds of animals	
some thir	ngs occur, and talk a	bout changes.	and plants, and how they depend on each other, including how animals, obtain	
			their food from plants and other animals, using the idea of a simple food chain.	
			Summer 1	
Theme	Learning	Substantive Knowledge	Suggested Activity	
	Objective		Vocabulary and Discovery	
	What makes	To know that animals can be grouped in		
	some animals	different ways.	Uses small world animals and direct them to sort them into their own groups and	
Session	different to	To know animals can be grouped by what	discuss how they have sorted them.	
1	other animals?	they eat		
2 hour		carnivore, herbivore, omnivore.	Begin to introduce the new vocabulary by asking them to sort them inti certain	
	WS - To	To know that carnivores eat meat	group <mark>s</mark>	
	identify and	(other animals), herbivores eat plants	- fish / not fish amphibian/not amphibians	
	classify animals	and omnivores eat both meat (animals)	 animals that live in the UK / animals that don't 	
		and plants	 animals that live in water all the time/ animals that don't 	
		To know that animals with a backbone	- carnivores /herbivores / omnivores	
		(vertebrates) can be grouped into		
		mammals, birds, reptiles, amphibians,		
		and fish.		

	What are the	To know that mammals, birds,	Sort characteristics of each animal group - Kagen
	different types	reptiles amphibians and fish	https://www.bbc.co.uk/bitesize/topics/z6882hv
	of animal?	have certain characteristics that	Fish
Session 2	What type of	help us to group them.	Has fins to help it swim.
1 hour	animal is this?	To know that fish have	Is covered in scales
	How can we	• scales	Baby fish are born in eggs.
	identify which	• no legs	Cold blooded.
	group an animal	 gills to breath 	They have no legs.
	belongs to?	To know fish are cold blooded and	They breathe through gills underwater
	What are the	their babies hatch out of the	mammals
	characteristics	eggs they lay.	Young mammals drink milk from their mothers.
	of fish?	To know that amphibians have	Most mammals have skin with some hair or fur.
	What ae the	• skin	Almost all mammals give birth to live babies (not in eggs).
	characteristics	 for some of their life they 	They are warm-blooded.
	of mammals?	have gills but they develop	They breathe through lungs
	What ae the	lungs as the get older.	Amphibian
	characteristics	To know amphibians are cold-	They are cold-blooded.
	of amphibians?	blooded and their babies hatch	Baby amphibians are born in eggs.
		out of the eggs they lay.	Some of their life they have gills then they develop lungs to breath on land
	To identify and	To know that mammals have	Their bodies are covered in skin
	name a variety	 skin with some hair or fur 	Birds Insert Fishers Amphibians Rearises Manuals
	of common	• a beak	2 a 2 (m) (m) (m) (m)
	animals	 4 limbs (arms and legs) 	
	specifically fish,	 lungs to breath 	
	amphibians and	To know mammals are warm-	
	mammals	blooded and they give birth to live	
		babies.	🐺 🔊 🔰 🎽 🎽 📸 🎬
			Kupa San San San

Session 3	What characteristic do birds and	To know that mammals , birds , reptiles , amphibians , and fish have certain characteristics that	Pupils create a fact file using video clips, photographs and information texts on amphibians, mammal and fish you have chosen based on pupil interest, animals you have seen while, in the woodland, pets characters in your class text or other books
Session 3 1 hour	do birds and reptiles have? What are their similarities? What are their differences? Do they share characteristics? To describe and compare the structure of a variety of common animal's fish, amphibians and mammals, including pets)	have certain characteristics that help us to group them. To know that fish have • scales • no legs • gills to breath To know fish are cold blooded and their babies hatch out of the eggs they lay. To know that amphibians have • skin • for some of their life they have gills but they develop lungs as the get older. To know amphibians are cold- blooded and their babies hatch out of the eggs they lay. To know that mammals have • skin with some hair or fur • a beak • 4 limbs (arms and legs) • lungs to breath	
		blooded and they give birth to live babies.	
		ASSESSMENT WEEK Key Assessment Criteria	Assessment Carousel Prepare range of activities that pupils can attempt independently to recap and consolidate learning. This could include

To know the key physical features	5. Labelling animals (cut and stick)
and characteristics of mammals,	6. Identifying animals using classification keys
fish and amphibians.	7. Sorting animals
To know the meaning of the terms	8. Small world animals and habitats
carnivore, herbivore and omnivore	Focus group
and name animals withing each	Give each pupil a selection of small world animals and ask them to sort them however
category.	they wish and explain what they have done. Now ask them to sort them according to your criteria.
	Choose two animals for each child and ask children to identify them and classify them as a mammal, bird or reptile. How did they know? What else can they tell you?
	Put the small world animals in the middle of the table and ask each child to select a herbivore, omnivore or carnivore.
PREP for Summer 2	Look at a variety of seeds, beans bulbs plant in various containers including plant pots with soil and clear containers with blotting paper or kitchen roll
	Take a photograph.
	Pupils will keep a plant diary next half term and measure the growth of two plants in
	order to complete a weekly class chart and compare the growth at the end of term

ecord /create a line graph
Look at changes to flora
nd trees
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Subject: Science -Biology			
Year group: 1			Unit of Learning: Plants
Prior Learning Children should know about similarities and differences in relation to 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.			 Future Learning: In Year 2 pupils will learn how seeds and bulbs grow into mature plants And that plants need water, light and a suitable temperature to grow and stay healthy. In Year 3 pupils will learn to identify and describe the functions of different parts of flowering plants: roots, stem/trunk, leaves and flowers. They will investigate the way in which water is transported within plants and explore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal.
	-		Summer 2
Theme	Learning Objective	Substantive Knowledge	Suggested Activity
Session 1 2 hour	What are the different parts of a plant called? To identify and describe the basic structure of a variety of common flowering plants, including trees.	To know that plants and trees are living things. To know that some plants have flowers and others don't. To know that all plants are made up of roots stem leaves To know that flowering plants are made up of roots stem leaves flowers petals	Provide children with a variety of plants on their table such as a leek, a lily (TAKE CARE the pollen stains), cress, 'living salad' leaves, potted plant, flowering plant. https://www.bbc.co.uk/bitesize/topics/zpxnyrd/articles/z3wpsbk Explain that, most plants are made up of roots stem leaves flowers petals Pupils use sticky notes to label the plants on the table in front of them. EXT: can pupils explain the function of each part of the plants.

Session 2 1 hour	How do plants grow?	To know that plants grow from seeds and bulbs. To know that the roots grow first underground and then a shoot will appear above ground.	Start by looking at the photos of the different seeds planted before half term. 'Before the holidays we planted different seeds in a variety of container' Today we are going to see how they have changed' 'What do you think might have happened?' (give thinking time and use Kagen strategies where appropriate) Use Kagen strategies to generate vocabulary they might need to describe the plants. <u>https://www.youtube.com/watch?v=JSe_VUMymjo</u> Clarify new vocabulary germination, seed coat, roots and shoot introduced in the clip Show children the plants use Kagen strategies to describe the changes. Record the changes as you see fit in a plant diary (photographs and captions, labelled diagrams) (Maybe choose the beans or sunflowers to focus on for plant diary) Measure the growth of two different plant and complete a weekly growth chart as
Session 3 1 hour	What different plants are found in our school environment? To identify and name a variety of common wild and garden plants, including deciduous and evergreen trees	To know that plants and trees are living things. To know that some plants have flowers and others don't. To know deciduous trees lose their leaves in autumn. To know evergreen trees have leaves all year round. To know the names of some common plants found in our school environment.	Pre teach / introduce some simple classification keys or books. Similar to Lesson 1 but this time look at the plants in our school environment. Pupils identify common wild plants and trees and recognise parts of different plants they find. Could this be a scavenger hunt done in smaller groups set out at different points around school- have classification keys available - Polly tunnel - Quad - Forest / woodland - School field

		To know how to use simple classification keys.	Record learning using photographs and post-it not observations or pupils cold use photographs in follow up work to classify and label.
Session 4 1 hour	What are the different parts of a plant called? To identify and describe the basic structure of a variety of common flowering plants, including trees.	To know that all plants are made up of roots stem leaves To know that flowering plants are made up of roots stem leaves flowers petals To know where the roots, stem, leaves, flowers, petals are on different plants.	Start by looking at the photos of the different seeds planted before half term. 'Think back to last time we looked at the seeds - what had happened what did they look like?' How do you think they will look today? Make a prediction about how the plants will look today. (give thinking time and use Kagen strategies where appropriate) Use Kagen strategies to generate vocabulary they might need to describe the plants. Record the changes as you see fit in a plant diary (photographs and captions, labelled diagrams) Complete Plant diary for the final time Start by looking at the photos of the different seeds planted before half term. 'Think back to last time we looked at the seeds - what had happened what did they look like?' How do you think they will look today? Make a prediction about how the plants will look today. (give thinking time and use Kagen strategies where appropriate) Record the changes as you see fit in a plant diary (photographs and captions, labelled diagrams) Complete Plant diary for the final time Start by looking at the photos of the appropriate seeds - what had happened what did they look like?' How do you think they will look today? Make a prediction about how the plants will look today. (give thinking time and use Kagen strategies where appropriate) Record the changes as you see fit in a plant diary (photographs and captions, labelled diagrams) Look at the class growth chart and discuss what it shows using Kagen strategies. Is this what they expected why /why not? Pupils stick a copy/ photograph of the chart in their book and explain chart the about about
		ASSESSMENT <u>Key Assessment Criteria</u> To know that all plants are made up of roots , a stem and leaves and that flowering plants also have flowers and petals .	

'Forest	What is happening	To know that in the UK we have	Regular walks into the school environment at different points throughout the year.
Friday'	in our school	four seasons spring, summer	Describe the weather today
	environment in	autumn and Spring.	What do you notice?
Ongoing	summer?		What has changed since our last walk?
learning	WS - To observe	To know that in summer the days	What do you think we will see on our next walk?
throughout	closely, using simple	become longer; the temperature	Measure temperature /rainfall on frequent walks / record /create a line graph
the year	equipment WS - To ask simple	becomes warmer; deciduous	(whole class or individual) and compare to prediction. Look at changes to flora and
	questions and	trees that blossomed will show	fauna. Identify common wild and garden plants and trees
	recognising that they	signs of fruit, trees will be in	
	can be answered in	full leaf, plants will growing	Keep a simple observational diary.
	WS - To observe		The weather was
	closely, using simple	In spring , animals will become	
	equipment	more active and have babies of	The temperature
	w5 - To use observations and ideas	their own	
	to suggest answers to		I saw
	questions	ASSESSMENT	
	WS - To gather and	Key Assessment Criteria	I notic <mark>ed</mark>
	in answering data to help	To know some of the seasonal	
	To observe changes	changes that occur during	Things that had changed
	across the four seasons	summer and name a variety of	•
	To observe and	common wild and garden plants,	•
	associated with the		•
	seasons and how day		Next time I think
	length varies.		I would like to find out
	To identify and name a		
	and garden plants,		
	including deciduous and		
	evergreen trees		