

Science Year 1

	Animals including humans - Animals	Animals including humans -Humans	Everyday Materials 1	Everyday Materials 2	Plants	Seasonal Change
Previous Learning	 Describe animals that live on a farm, explaining how some products can be produced by an animal. Know all about bears Describe the difference between fleas, spiders and centipedes, understanding which creatures are insects and invertebrates. Understand the stages of a chicken's life, including explaining where eggs come from. Understand the stages of a cow's life, explaining where milk and butter comes from. 	 Explain how I use my arms, legs and chest, giving examples and labelling body parts. Explain how my hands and feet can be used. Know what the eyes and nose are, where they can be found on the body and what they are used for. Explain how ears work, the function of the mouth and the function of hair. Understand how humans grow, describing changes in the body. Explain why exercise is good 	 Explain what products come from sheep. Explain what float and sink means, grouping objects based on whether they float or sink. Know how mixing materials together can make salt dough. 	 Explain why wool is good for clothing. Explain what materials make good reflectors. 	 Explain where plants come from, explaining the life cycle of a plant. Explain what a plant needs to live, understanding that a plant grows from a seed. Know the features of a plant. Know that plants are living and can be compared to humans. 	 Know what clothes you wear in the rain. Explain the difference between rain, ice and water. Understand the role of clouds. Understand wind direction, describing what causes wind and that wind is the movement of air. Explain what snow is, knowing that snow melts when the weather gets warmer. Describe what happens to the tree during the 4 seasons. Understand how

		for you. Understand what first aid is, recalling items from a first aid kit. Identify key senses of the human body, explaining what the senses do and labelling the parts of the body associated with each sense. Explain how I use my sense of hearing and sight. Understand the words feel and taste, describing the taste of something and finding objects without seeing it.				a rainbow is formed, including the colours that make a rainbow.
Substantive	Identify and name a	• Identify, name,	• Distinguish	• Compare	Become familiar	Observe changes
Knowledge	variety of common animals including	draw and label the basic parts of the	between an object and the material	and group together a	with common names of flowers	across the 4 seasons
	fish, amphibians,	human body and	from which it is	variety of	and plant	Observe and
	reptiles, birds and	say which part of	made	everyday	structures	describe weather
	mammals	the body is		materials on	including seeds.	associated with

	 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) 	associated with each sense	 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 	the basis of their simple physical properties • Describe the simple physical properties of a variety of everyday materials	 Identify and describe the basic structure of a variety of common flowering plants, including trees Become familiar with common names of flowers and plant structures. Identify and name a variety of common wild and garden plants. Identify and name a variety of deciduous and evergreen trees. 	the seasons and how day length varies
Disciplinary	• Use their	• Identify and	properties • Perform simple	• Perform	Understand how plants change over time Observe the growth of planted flowers Become familiar with plant structures Keep records of how plants change over time Ask simple	Perform simple
Knowledge	observations and ideas to suggest answers to questions	classify Use their observations and	tests	simple tests Identify and classify	questions	tests Use their observations and

	• Group and sort	ideas to suggest answers to questions • Gather and record data to help in answering questions. • Perform simple tests	Observe closely, using simple equipment Identify and classify Gather and record data to help in answering questions	Use their observations and ideas to suggest answers to questions	 Observe closely and use simple equipment Use their observations and ideas to suggest answers to questions Identify and classify Compare and contrast familiar plants Draw diagrams showing the parts of different plants, including tree Gather and record 	ideas to suggest answers to questions • Gather and record data to help in answering questions. • Identifying and classifying
Vocabulary	fish	head	material	solid	data seed	season
	amphibian	body	fabric	strong	plant	spring
	reptile	skeleton	wood	brick	tree	summer
	mammal	limb	plastic	clay	soil	autumn
	bird	joint	metal	wind	predict	winter
	feather	brain	object	waterproof	stem	autumn
	warm -blooded	eyelash	glass	absorbent	petal	hibernate
	characteristic backbone	eye	property	non -absorbent	leaf	weather
	hatchling	sight	brick	roof	root	protect
	gills	pupil	elastic	slate	flower	harvest
	scale	sound	opaque	transparent	environment	weather
	cold -blooded	ear	transparent	opaque	weed	frost
	herbivore	sign language	dull	suitable	daisy	sleet
	carnivore	vibration	stiff		dandelion	

omnivore	deafness	natural	window pane	wild	temperature
predator	tongue	man made	window frame fabric	deciduous	compare changes
canines	mouth	factory	furniture	evergreen	grow chick summer
pet	taste	rubber	cotton	seasons	warm sun protection
wild	flavour	polyester	mattress	branch	temperature
shelter	sweet	predict	soft	bush	heatwave
veterinary	touch	float	wool	supermarket	rainfall
natural	fingertips	sink	weather	fruit	measuring
similarities differences	skin	submerge	jumper	vegetable	record
compare	organ	buoyant	suitable	farm	results
unsuitable	brain	absorbent	evaluate	tractor	graph
climate	smell	sponge	material	growth	
	odour	waterproof umbrella	properties	seedling	
	nose	soak	tile	young plant	
	nostril		garden	adult plant	
	hair			observe	

Retrieval

	Animals including humans – Animals – Term 1						
Week	Week Retrieval Practice Questions						
1	Last week: n/a						
	Last term: n/a						
	Last year: What are the names of the different animals?						
2	Last week: What are the 5 groups of animals? What groups do different animals belong to?						
	Last term: n/a						
	Last year: Where does a camel live?						
3	3 Last week: What is the difference between a mammal and a bird?						
	Last term: n/a						

	Last year: Where does a fish live?					
4	Last week: Which type of animals have scales?					
	Last term: n/a					
	Last year: What do birds eat?					
5	Last week: What is a carnivore, herbivore and omnivore?					
	Last term: n/a					
	Last year: Where do different animals live?					
6	Last week: Give an example of an animal that can be kept as a pet. What are the 5 groups of animals?					
	Last term: n/a					
	Last year: What animals live on a far					
WOW days /	Zoo/farm visit					
experiences	Visitor into school: animals					
	Staff to bring in pet					
	Real food to sort					

	Animals including humans – Humans – Term 2				
Week	Retrieval Practice Questions				
1	Last week: n/a				
	Last term: What are the animal families?				
	Last year: Where are your arms, your legs and your chest?				
2	Last week: Where is your heart? What does it do? Where is your brain? What is a skeleton?				
	Last term: What is the difference between a mammal and a bird?				
	Last year: What are our hands and feet used for?				
3	Last week: What does the pupil and iris do?				
	Last term: What is the difference between amphibians, reptiles and fish?				
	Last year: How do we smell and how do we see?				
4	Last week: How do we hear sounds?				

	Last term: What type of food do living things eat?
	Last year: What is the purpose of hair?
5	Last week: What are your taste buds and what do they enable us to do?
	Last term: What is the difference between wild animals and pets?
	Last year: How have you changed since you were a baby?
6	Last week: What does our sense of touch allow us to do?
	Last term: What are the characteristics of animals?
	Last year: Compare yourself to a friend.
WOW days /	Sense walk
experiences	

	Every day materials – Term 3						
Week	Week Retrieval Practice Questions						
1	Last week: n/a						
	Last term: What are the parts of the human body?						
	Last year: What substances melt?						
2	Last week: Name everyday materials.						
	Last term: What do our eyes do?						
	Last year: What process happens to chocolate to make an Easter egg?						
3	Last week: Sort the materials by what they are made from.						
	Last term: What do our ears do?						
	Last year: Why is wool good for clothing?						
4	Last week: Describe the properties of the objects below.						

	Last term: What do our mouths do?
	Last year: Where does your knitted jumper come from?
5	Last week: Sort the materials into manmade and natural.
	Last term: What is the sense of touch?
	Last year: How does water change?
6	Last week: Sort the objects into objects which float and which objects sink.
	Last term: What does our nose do?
	Last year: What materials are good reflectors?
WOW days /	•
experiences	

	Every day materials – Term 4				
Week	Retrieval Practice Questions				
1	Last week: n/a				
	Last term: Name the everyday materials				
	Last year: What products come from sheep?				
2	Last week: What material can withstand wind?				
	Last term: What is the difference between an object and the material it is made from?				
	Last year: Why is wool good for clothing?				
3	Last week: Name a waterproof material.				
	Last term: What are the properties of an everyday material?				
	Last year: What objects sink and what objects float?				

4	Last week: What are the properties of glass?
	Last term: What objects are natural and what are manmade?
	Last year: What materials are needed to make a home?
5	Last week: What furniture can you make with different materials?
	Last term: What objects sink and what objects float?
	Last year: List ways of making a jumper from yearn?
6	Last week: Name different fabrics.
	Last term: What materials are best for different objects?
	Last year: How do you make salt dough?
WOW days /	Builder visit
experiences	Visit to a new house estate to talk to builders/builders company

Plants – Term 5		
Week	Retrieval Practice Questions	
1	Last week: n/a	
	Last term: What materials can withstand wind?	
	Last year: Name 3 fruit	
2	Last week: Where can you find plants?	
	Last term: Name a waterproof material.	
	Last year: What is the life cycle of a plant?	
3	Last week: Name the plants we looked at in the last lesson	
	Last term: What is glass used for?	
	Last year: What does a plant grow from?	
4	Last week: What is the difference between a garden flower and wild flower	

	Last term: What furniture can be made from different materials?
	Last year: What are the features of a plant?
5	Last week: What is happening to the apples in each picture?
	Last term: Name different materials.
	Last year: Identify 3 types of vegetable
6	Last week: Tell your partner two things you know about plants.
	Last term: What are the uses of materials?
	Last year: Where do vegetables grow?
WOW days /	Visit to a farm: looking at fields where crops are grown
experiences	Park visit to see wild plants
	National trust house/gardens to look at wild and garden plants
	Garden centre visit

Seasonal Change – Term 6		
Week	Retrieval Practice Questions	
1	Last week: n/a	
	Last term: What do seed grow into?	
	Last year: What clothes do you wear in the rain?	
2	Last week: Name the 4 seasons.	
	Last term: What are the basic parts of a plant and tree?	
	Last year: What is the difference between rain, ice and water?	
3	Last week: Identify a change that takes place in Autumn.	
	Last term: Name 3 wildflowers	
	Last year: What is the role of clouds?	
4	Last week: Identify a change that takes place in Winter.	
	Last term: What is the difference between an evergreen and deciduous tree?	

	Last year: What is wind?
5	Last week: Identify a change that takes place in Spring.
	Last term: What is a fruit and what is a vegetable?
	Last year: What is snow?
6	Last week: Identify a change that takes place in Summer.
	Last term: How does a plant change over time?
	Last year: How is a rainbow formed and what are the colours?
WOW days /	Park visit
experiences	Doctor visit: sun protection