

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Unit	Animals including humans	Rocks	Forces and Magnets	Animals including humans	Plants	Light
Coverage	Nutrition, carnivores, omnivores and herbivores	Compare, group and classify rocks. Fossil and soil formation	Attract and repel objects, compare how objects move	Human and animal skeletons and muscles	Plant life and growth. The different parts and functions of plants	Source of light, reflection and shadows
Content	•Identify that animals, including humans, need the right types and amount of nutrition, and that they cannot make their own food; they get nutrition from what they eat	 Compare and group together different kinds of rocks on the basis of their appearance and simple physical properties Describe in simple terms how fossils are formed when things that have lived are trapped within rock Recognise that soils are made from rocks and organic matter 	 Compare how things move on different surfaces Notice that some forces need contact between two objects, but magnetic forces can act at a distance Observe how magnets attract or repel each other and attract some materials and not others 	•Identify that humans and some other animals have skeletons and muscles for support, protection and movement	 Identify and describe the functions of different parts of flowering plants: roots, stem/trunk, leaves and flowers Explore the requirements of plants for life and growth and how they vary from plant to plant Investigate the way in which water is transported within plants Explore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal 	 Recognise that we need light in order to see things and that dark is the absence of light Notice that light is reflected from surfaces Recognise that light from the sun can be dangerous and that there are ways to protect their eyes Recognise that shadows are formed when the light from a light source is blocked by an opaque object Find patterns in the way that the size of shadows change





	 Continue to learn 	 Linked with work in 	 Observe that magnetic 	 Pupils should be 	 Be introduced to the 	•Explore what happens	
	about the importance of	geography, explore	forces can act without	introduced to the main	relationship between	when light reflects off a	
	nutrition	different kinds of rocks	direct contact, unlike	body parts associated	structure and function:	mirror or other reflective	
		and soils, including	most forces, where	with the skeleton and	the idea that every part	surfaces, including	
	 Understand that 	those in the local	direct contact is	muscles, finding out	has a job to do	playing mirror games to	
	animals have different	environment. Learn	necessary (for example,	how different parts of		help them to answer	
	diets to humans	about sedimentary,	opening a door, pushing	the body have special	 Explore questions that 	questions about how	
		metamorphic and	a swing). Label the	functions. Identify and	focus on the role of the	light behaves	
	 Classify animals as 	igneous rocks	forces acting on a	name parts of the	roots and stem in		
	carnivores, omnivores		magnet and a spring	human skeleton and	nutrition and support,	 Think about why it is 	
	and herbivores	 Understand how 		some muscles	leaves for nutrition and	important to protect	
es		fossils and soil are	 Explore the behaviour 		flowers for reproduction	their eyes from bright	
Ē	 Understand the food 	formed	and everyday uses of	 Use the focus on 		lights. look for, and	
Activities	pyramid, know the food		different magnets (for	muscles and skeleton to	Note: Pupils can be	measure shadows, and	
Ç	groups and what foods	 Compare different soil 	example, bar, ring,	talk about and find out	introduced to the idea	find out how they are	
٩	they contain	profiles	button and horseshoe)	about pushes and pulls	that plants can make	formed and what might	
				in readiness for	their own food, but at	cause the shadows to	
	 Know what nutrients 			magnetism	this stage they do not	change	
	are and which food				need to understand how		
	contain them				this happens	Note: Pupils should be	
						warned that it is not safe	
						to look directly at the	
						Sun, even when wearing	
						dark glasses	
	Nutrition, vitamin,	fossil, soil, crystals,	Magnet, magnetic,	skeleton, muscles, diet,	roots, stem, nutrients,	reflection, shadows, light	
>	mineral, carbohydrates,	sedimentary,	magnetic pole, attract	joint, pelvis, cartilage,	pollination, seed	source, opaque,	
a	protein, dairy, oils, fruit,	metamorphic, igneous,	and repel, forces,	rib cage, tendon, spine,	dispersal, fertiliser, seed	refraction, periscope,	
Ē	carnivore, omnivore,	organic matter	friction, surface	protect, support,	formation, stigma,	nocturnal, orbits, convex,	
ģ	herbivore, prey	organic matter		movement	anther, soil	concave	
ö	nerorore, prey			movement		concave	
Vocabulary							



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	 Asking relevant 	 Asking relevant 	 Asking relevant 	 Asking relevant 	 Asking relevant 	 Asking relevant
	questions and using	questions and using	questions and using	questions and using	questions and using	questions and using
	different types of	different types of	different types of	different types of	different types of	different types of
	scientific enquiries to	scientific enquiries to	scientific enquiries to	scientific enquiries to	scientific enquiries to	scientific enquiries to
	answer them	answer them	answer them	answer them	answer them	answer them
	 Making systematic and 	 Setting up simple 	 Setting up simple 	 Making systematic and 	 Setting up simple 	 Setting up simple
	careful observations	practical enquiries,	practical enquiries,	careful observations	practical enquiries,	practical enquiries,
	and, where appropriate,	comparative and fair	comparative and fair	and, where appropriate,	comparative and fair tests	comparative and fair
	taking accurate	tests	tests	taking accurate		tests
	measurements using			measurements using	 Making systematic and 	
	standard units, using a	 Gathering, recording, 	 Gathering, recording, 	standard units, using a	careful observations and,	 Making systematic and
	range of equipment	classifying and	classifying and	range of equipment,	where appropriate, taking	careful observations and,
lγ		presenting data in a	presenting data in a	including thermometers	accurate measurements	where appropriate,
al	 Gathering, recording, 	variety of ways to help	variety of ways to help	and data loggers	using standard units,	taking accurate
fic	classifying and	in answering questions	in answering questions		using a range of	measurements using
hti	presenting data in a			 Gathering, recording, 	equipment	standard units, using a
Scientifically	variety of ways to help	 Recording findings 	 Recording findings 	classifying and		range of equipment,
òci	in answering questions	using simple scientific	using simple scientific	presenting data in a	 Gathering, recording, 	including thermometers
		language, drawings,	language, drawings,	variety of ways to help	classifying and presenting	and data loggers
Working	 Recording findings 	labelled diagrams, keys,	labelled diagrams, keys,	in answering questions	data in a variety of ways	
rk	using simple scientific	bar charts, and tables	bar charts, and tables		to help in answering	 Gathering, recording,
/0	language, drawings,			 Recording findings 	questions	classifying and
5	labelled diagrams, keys,	 Reporting on findings 	 Using results to draw 	using simple scientific		presenting data in a
	bar charts, and tables	from enquiries,	simple conclusions,	language, drawings,	 Recording findings using 	variety of ways to help in
		including oral and	make predictions for	labelled diagrams, keys,	simple scientific	answering questions
	 Reporting on findings 	written explanations,	new values, suggest	bar charts, and tables	language, drawings,	
	from enquiries,	displays or	improvements and raise		labelled diagrams, keys,	 Recording findings
	including oral and	presentations of results	further questions	 Reporting on findings 	bar charts, and tables.	using simple scientific
	written explanations,	and conclusions		from enquiries,		language, drawings,
	displays or		 Identifying differences, 	including oral and	 Reporting on findings 	labelled diagrams, keys,
	presentations of results	 Using results to draw 	similarities or changes	written explanations,	from enquiries, including	bar charts, and tables
	and conclusions	simple conclusions,	related to simple	displays or	oral and written	
		make predictions for	scientific ideas and	presentations of results	explanations, displays or	•Reporting on findings
	 Identifying differences, 	new values, suggest	processes	and conclusions	presentations of	from enquiries, including
	similarities or changes	improvements and raise			results and conclusions	oral and written
	related to simple	further questions				explanations, displays or



Adwyn Filliary School – Tear S Science Overview							
scientific ideas and		 Using straightforward 	 Identifying differences, 	 Identifying differences, 	presentations of results		
processes	 Identifying differences, 	scientific evidence to	similarities or changes	similarities or changes	and conclusions		
	similarities or changes	answer questions or to	related to simple	related to simple			
 Using straightforward 	related to simple	support their	scientific ideas and	scientific ideas and	 Using results to draw 		
scientific evidence to	scientific ideas and	findings	processes	processes.	simple conclusions,		
answer questions or to	processes				make predictions for		
support their findings.	 Using straightforward 		 Using straightforward 	 Using straightforward 	new values, suggest		
Identifying and	scientific evidence to	Pattern seeking - Does	scientific evidence to	scientific evidence to	improvements and raise		
classifying – How can	answer questions or to	the size and shape of	answer questions or to	answer questions or to	further questions		
we group the food we	support their findings	the magnet affect how	support their findings	support their findings			
eat?		strong it is? Identifying			 Identifying differences, 		
Research – why do	Fair testing – How does	and classifying – Which	Pattern seeking – Do	Identifying and classifying	similarities or changes		
different types vitamins	adding different	materials are magnetic?	male humans have	 How many different 	related to simple		
keep us healthy and	amounts of sand to soil	Comparative – Which	larger skulls than female	ways can you group our	scientific ideas and		
which food can we find	affect how quickly	magnet is strongest?	humans?	seed collection?	processes		
them in?	water drains through it?		How do the skeletons of	Comparative tests –			
	Identifying and		different animals	Which conditions help	 Using straightforward 		
	classifying - Can you use		compare?	seeds germinate faster?	scientific evidence to		
	the identification key to			Research – What are all	answer questions or to		
	find out the name of			the ways that seeds	support their findings		
	each rock in your			disperse?			
	classroom?			Observe – How do	Fair testing – How does		
	Comparative tests –			flowers in a vase change	the number of layers of		
	Which soil absorbs the			over time?	transparent plastic affect		
	most water?			What happens to celery	how much light can pass		
				when it is left in a glass of	through?		
				coloured water	How does the distance		
					between the shadow		
					puppet and the screen		
					affect the size of the		
					shadow?		
					Research – How does the		
					sun make light?		
					Observing – When is our		
					classroom the darkest? Is		
					the sun the same		
					brightness all day?		



Assessment	TAPS Assessment, animal classify and identify	TAPS Assessment, rock and soil activity	TAPS Assessment magnetic prediction and rolling cars	TAPS Assessment, skeleton function investigation	TAPS Assessment, growth of plants and the function of different plant parts	TAPS Assessment, can everything make a shadow?
Enrichment	Trip to local restaurant for pizza making day. How can we make the pizza healthy?	Fossil hunting at Manchester Museum.	Designing and making board games using magnets.	Design and make dancing skeletons.	Nature walk in our local woods.	Torchlight shadow puppet experience.



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	EYFS	Year 1	EYFS	EYFS	EYFS	Year 1
	 Have some 	 Identify and name a 	 Know about 	 be able to identify 	 Make observations of 	 Observed changes
	understanding of	variety of everyday	similarities and	different parts of their	plants	across the four seasons
	healthy food and the	materials, including	differences in relation	body		
	need for variety in their	wood, plastic, glass,	to places, objects,	 Know the effects 	 Know some names of 	 Observed and describe
	diets	metal, water, and rock	materials and living	exercise has on their	plants, trees and flowers	weather associated with
			things.	bodies		the seasons and how day
	 Be able to show care 	Year 2		•Have some	 May be able to name 	length varies
	and concern for living	 Identify and compare 	Year 2	understanding of	and describe different	
	things	the suitability of a	 May have an 	growth and change	plants, trees and flowers	 May have some
		variety of everyday	awareness of how to	•Can talk about things		knowledge of were light
	 Know the effects 	materials, including	make things stop and	they have observed	 Show some care for 	comes from
	exercise has on their	wood, metal, plastic,	start, using simple	including animals	their world around them	
	bodies	glass, brick, rock, paper	pushes and pulls.			 Will most likely have
		and cardboard for		Year 1	Year 1	seen their shadows and
Bu	 Have some 	particular uses	 They may know about 	 Identify and name a 	 Identify and name a 	may know they appear
nin	understanding of		floating and sinking.	variety of common	variety of common wild	when it is sunny
arı	growth and change	 Find out how shapes of 		animals including fish,	and garden plants,	
e.		solid objects made from		amphibians, reptiles,	including deciduous and	 Some understanding of
L	Year 1	some materials can be		birds and mammals	evergreen trees	a reflection
Prior Learning	 Identify and name a 	changed by squashing,				
Pr	variety of common	bending, twisting and		Year 2	 They should be able to 	 May understand they
	animals including fish,	stretching		 Know that animals, 	identify and describe the	need light to be able to
	amphibians, reptiles,			including humans, have	basic structure of a	see things
	birds and mammals			offspring which grow	variety of common	
				into adults	flowering plants,	
	 Identify and name a 				including trees	
	variety of common			 Know the basic stages 		
	animals that are			in a life cycle for	Year 2	
	carnivores, herbivores			animals, including	 Observe and describe 	
	and omnivores			humans	how seeds and bulbs	
					grow into mature plants	
	Year 2			•Find out and describe		
	•Find out and describe			the basic needs of	•Find out and describe	
	the basic needs of			animals, including	how plants need water,	
	animals, including			humans, for survival	light and a suitable	
				(water, food and air)		



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humans, for survival			temperature to grow and	
(water, food and air)			stay healthy	
(water, lood and any			stay healthy	
•Describe the				
importance for humans				
of exercise, eating the				
of exercise, eating the				
right amounts of				
different types of food,				
and hygiene				
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	Year 4	Year 4	Year 5	Year 4	Year 5	Year 6
	 Describe the simple 	 Compare and group 	 Explain that 	 Describe the simple 	 To describe the life 	 Recognise that light
	functions of the basic	materials together,	unsupported objects fall	functions of the basic	process of reproduction	appears to travel in
	parts of the digestive	according to whether	towards the Earth	parts of the digestive	in some plants	straight lines
	system in humans	they are solids, liquids	because of the force of	system in humans		
		or gases	gravity acting between		Year 6	 Use the idea that light
	 Identify the different 		the Earth and the falling	 Identify the different 	 Identify how animals 	travels in straight lines to
	types of teeth in	 Observe that some 	object	types of teeth in	and plants are adapted to	explain that objects are
	humans and their	materials change state		humans and their	suit their environment in	seen because they give
	simple functions	when heated or cooled,	 Identify the effects of 	simple functions	different ways and that	out or reflect light into
		and measure and	air resistance, water		adaptation may lead to	the eye
	 Construct and 	research the	resistance and friction,	Year 5	evolution	
	interpret a variety of	temperature at which	that act between	 Describe the changes 		 Explain that we see
	food chains, identifying	this happens in degrees	moving surfaces	as humans develop to		things because light
ള	producers, predators	Celsius		old age		travels from light sources
Ē	and prey		 Recognise that some 			to our eyes or from light
ari		 Identify the part 	mechanisms, including	Year 6		sources to objects and
ĕ	Year 5	played by evaporation	levers, pulleys and	 Identify and name the 		then to our eyes
Future Learning	 Describe the changes 	and condensation in the	gears, allow a smaller	main parts of the		
ň	as humans develop to	water cycle and	force to have a greater	human circulatory		 Use the idea that light
Ę	old age	associate the rate of	effect	system, and describe		travels in straight lines to
Ē		evaporation with		the functions of the		explain why shadows
	Year 6	temperature		heart, blood vessels and		have the same shape as
	 Identify and name the 			blood		the objects that cast
	main parts of the	Year 6				them
	human circulatory	 Recognise that living 				
	system, and describe	things have changed				
	the functions of the	over time and that				
	heart, blood vessels and	fossils provide				
	blood	information about living				
		things that inhabited				
	•Recognise the impact	the Earth millions of				
	of diet, exercise, drugs	years ago				
	and lifestyle on the way					
	their bodies function					



	=	-			
 Describe the ways in 					
which nutrients and					
water are transported					
within animals,					
including humans					
0					
,	which nutrients and water are transported	which nutrients and water are transported within animals,			