

Holywell Primary School

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we are a learning community with the spirit to succeed

Science subject coverage 2021 - 2022

Year group	Autumn 1	Autumn 2	Spri	ng 1	Spring 2	Summer 1	Sum	mer 2
Nursery	Communication and Language			Understand 'why' questions, like: "Why do you think the caterpillar got so fat?"				
	Physi	cal Development		Make healthy toothbrushin				
	Understanding the World		 Use all their smaterials. Explore colle properties. Talk about w Begin to make family's histore. Explore how Plant seeds at an animal. Begin to understand to an animal. Begin to understand to an animal. Explore and to the explore and to the explore and to they notice. 	d				
Reception	Comm			 said to them Articulate the Describe eve Use talk to wand activities might happe 	ns to find out more an eir ideas and thought ents in some detail. ork out problems and s. Explain how things	s in well-formed sente I organise thinking work and why they		
			Know and ta overall health - regular phys - healthy eath - toothbrushi - sensible and - having a go - being a safe	their				
	Unders	tanding the World		 Describe wh Recognise so which they live 	the effect of changing	feel while they are ou at are different to the	one in	















		Communication and Language		Listening, Attention a	nd		ents about what they			
		and Language		Understand		questions to	stions to clarify their understanding.			
		Persona	I. Social	Managing	Self	Manage their	ir own basic hygiene and personal needs,			
		and Emo	otional	anaging	30	_	dressing, going to the toilet and understanding the			
		Develop	ment				of healthy food choices.			
		Underst	anding	The Natura	al	Explore the n	atural world around t	hem, making observa	tions	
		the Worl	d	World and drawin		and drawing	pictures of animals a	nd plants.		
								ences between the na		
							I them and contrastin nces and what has be	g environments, draw	ing on	
								esses and changes in		
								luding the seasons a		
							ites of matter.	,		
Year 1	Animals in	ncluding	Season	nal	Mate	rials and	Materials and	Plants	Plants	
	Humans		Change		_	Properties	their	Identify and	Identi	fy and
	Identify of	and	Autum		_	yday	Properties	name a variety	descri	•
	name a var	riety of	Winter	•	Mate	rials)	(Everyday	of common wild	basic s	structure
	common ar		Obser	ve		nguish	<u>Materials)</u>	and garden	of a va	riety of
	including f		_	s across		een an	Compare and	plants, including	commo	
	amphibian		the fo		•	ct and the	group together	deciduous and	flower	•
	reptiles, b		season			rial from	a variety of	evergreen	•	, including
	and mamm		Obser			n it is made.	everyday	trees.	trees.	
	Identify of		descri weath			tify and	materials on the basis of			
	name a var	•		er ated with	every	a variety of	their simple			
	that are	rimais		asons and	mate		physical			
	carnivores,					ding wood,	properties.			
	herbivores		varies.			ic, glass,	proper ries.			
	omnivores					l, water, and				
	Describe of	and			rock.	Describe				
	compare t					imple				
	structure				physi					
	variety of					erties of a				
	common an					ty of				
	(fish, amp reptiles, b				every mate					
	and mamm				mure	i iuis.				
	including p									
	Identify,									
	draw and I									
	the basic	•								
	of the hur									
	body and s									
	which part	t of the								
	body is associated	d with								
	each sense									
Year 2	Living thir		Mater	ials	Plant	S	Mammals,	Animals	Anima	ls
	their Hab		(Every			rve and	Growth and	including	includi	
	Explore ar	nd		ials and	desci	ribe how	Health	<u>Humans</u>	Human	
	compare t		their (s and bulbs	Find out about	Notice that		be the
	difference		Identi	•	_	into mature	and describe	animals,		ance for
	between t	-	compai		plant		the basic needs	including	human	
	that are li	_		lity of a		out and	of animals,	humans, have		se, eating
	dead, and that have	_	variety			ribe how	including humans, for	offspring which grow into	the rig	4
	been alive		everyo materi	•		s need r, light and a	numans, for survival (water,	grow into adults.		rs or ent types
	Deen anve	•	mareri	uis,	ware	, light and d	survivai (water,	duuiis.	unter	em Types

	Talamaid alasa	:	a cita ala la	f : - : - : - : - : - :		-£ £d -11-d
	Identify that	including wood,	suitable	food and air).		of food, and
	most living things live in habitats to	metal, plastic, glass, brick,	temperature to			hygiene.
	which they are	rock, paper and	grow and stay healthy.			
	suited and	cardboard for	neurny.			
	describe how	particular uses.				
	different	Find out how				
	habitats provide	the shapes of				
	for the basic	solid objects				
	needs of	made from				
	different kinds	some materials				
	of animals and	can be changed				
	plants, and how	by squashing,				
	they depend on	bending,				
	each other.	twisting and				
	Identify and	stretching.				
	name a variety of					
	plants and animals in their					
	habitats,					
	including					
	microhabitats.					
	Describe how					
	animals obtain					
	their food from					
	plants and other					
	animals, using the					
	idea of a simple					
	food chain, and					
	identify and					
	name different					
Year 3 2021-	sources of food. Animals including	Forces and	Rocks	<u>Light</u>	States of	Animals
2022	Humans			Recognise that	Olules of	Ammuis
2022		Maanets	i Compare and	Recountse mui	Matter	includina
	Identify that	<u>Magnets</u> Compare how	Compare and group together	_	<u>Matter</u> Compare and	including Humans
Vaca 4 2021			group together different kinds	they need light in order to see	Matter Compare and group materials	
Year 4 2021-	Identify that	Compare how	group together	they need light	Compare and	<u>Humans</u>
2022 (for one	Identify that animals, including humans, need the right types and	Compare how things move on different surfaces.	group together different kinds	they need light in order to see	Compare and group materials	Humans Construct and
2022 (for one year only and	Identify that animals, including humans, need the right types and amount of	Compare how things move on different surfaces. Notice that	group together different kinds of rocks on the basis of their appearance and	they need light in order to see things and that dark is the absence of	Compare and group materials together, according to whether they	Humans Construct and interpret a variety of food chains,
2022 (for one year only and then Year 4	Identify that animals, including humans, need the right types and amount of nutrition, and	Compare how things move on different surfaces. Notice that some forces	group together different kinds of rocks on the basis of their appearance and simple physical	they need light in order to see things and that dark is the absence of light.	Compare and group materials together, according to whether they are solids,	Humans Construct and interpret a variety of food chains, identifying
2022 (for one year only and then Year 4 will cover the	Identify that animals, including humans, need the right types and amount of nutrition, and that they cannot	Compare how things move on different surfaces. Notice that some forces need contact	group together different kinds of rocks on the basis of their appearance and simple physical properties.	they need light in order to see things and that dark is the absence of light. Notice that	Compare and group materials together, according to whether they are solids, liquids or gases	Humans Construct and interpret a variety of food chains, identifying producers,
2022 (for one year only and then Year 4 will cover the curriculum	Identify that animals, including humans, need the right types and amount of nutrition, and that they cannot make their own	Compare how things move on different surfaces. Notice that some forces need contact between two	group together different kinds of rocks on the basis of their appearance and simple physical properties. Describe in	they need light in order to see things and that dark is the absence of light. Notice that light is	Compare and group materials together, according to whether they are solids, liquids or gases Observe that	Humans Construct and interpret a variety of food chains, identifying producers, predators and
2022 (for one year only and then Year 4 will cover the	Identify that animals, including humans, need the right types and amount of nutrition, and that they cannot make their own food; they get	Compare how things move on different surfaces. Notice that some forces need contact between two objects, but	group together different kinds of rocks on the basis of their appearance and simple physical properties. Describe in simple terms how	they need light in order to see things and that dark is the absence of light. Notice that light is reflected from	Compare and group materials together, according to whether they are solids, liquids or gases Observe that some materials	Humans Construct and interpret a variety of food chains, identifying producers,
2022 (for one year only and then Year 4 will cover the curriculum	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	Compare how things move on different surfaces. Notice that some forces need contact between two objects, but magnetic	group together different kinds of rocks on the basis of their appearance and simple physical properties. Describe in simple terms how fossils are	they need light in order to see things and that dark is the absence of light. Notice that light is reflected from surfaces.	Compare and group materials together, according to whether they are solids, liquids or gases Observe that some materials change state	Humans Construct and interpret a variety of food chains, identifying producers, predators and
2022 (for one year only and then Year 4 will cover the curriculum	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 how things move on different surfaces. Notice that some forces need contact between two objects, but magnetic forces can act	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	they need light in order to see things and that dark is the absence of light. Notice that light is reflected from surfaces. Recognise that	Compare and group materials together, according to whether they are solids, liquids or gases Observe that some materials change state when they are	Humans Construct and interpret a variety of food chains, identifying producers, predators and
2022 (for one year only and then Year 4 will cover the curriculum	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	Compare how things move on different surfaces. Notice that some forces need contact between two objects, but magnetic	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	they need light in order to see things and that dark is the absence of light. Notice that light is reflected from surfaces.	Compare and group materials together, according to whether they are solids, liquids or gases Observe that some materials change state when they are heated or	Humans Construct and interpret a variety of food chains, identifying producers, predators and
2022 (for one year only and then Year 4 will cover the curriculum	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. Identify that	Compare how things move on different surfaces. Notice that some forces need contact between two objects, but magnetic forces can act at a distance.	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	they 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	Compare and group materials together, according to whether they are solids, liquids or gases Observe that some materials change state when they are	Humans Construct and interpret a variety of food chains, identifying producers, predators and
2022 (for one year only and then Year 4 will cover the curriculum	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. Identify that humans and some	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	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	they 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	Compare and group materials together, according to whether they are solids, liquids or gases Observe that some materials change state when they are heated or cooled, and	Humans Construct and interpret a variety of food chains, identifying producers, predators and
2022 (for one year only and then Year 4 will cover the curriculum	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. Identify that humans and some other animals	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	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	they 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	Compare and group materials together, according to whether they are solids, liquids or gases Observe that some materials change state when they are heated or cooled, and measure or research the temperature at	Humans Construct and interpret a variety of food chains, identifying producers, predators and
2022 (for one year only and then Year 4 will cover the curriculum	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. Identify that humans and some other animals have skeletons and muscles for support,	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	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	they 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.	Compare and group materials together, according to whether they are solids, liquids or gases Observe that some materials change state when they are heated or cooled, and measure or research the temperature at which this	Humans Construct and interpret a variety of food chains, identifying producers, predators and
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2022 (for one year only and then Year 4 will cover the curriculum	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. Identify that humans and some other animals have skeletons and muscles for support,	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.	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	they 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	Compare and group materials together, according to whether they are solids, liquids or gases Observe that some materials change state when they are heated or cooled, and measure or research the temperature at which this happens in degrees Celsius	Humans Construct and interpret a variety of food chains, identifying producers, predators and
2022 (for one year only and then Year 4 will cover the curriculum	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. Identify that humans and some other animals have skeletons and muscles for support, protection and	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. 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	they 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	Compare and group materials together, according to whether they are solids, liquids or gases Observe that some materials change state when they are heated or cooled, and measure or research the temperature at which this happens in degrees Celsius (°C) Identify	Humans Construct and interpret a variety of food chains, identifying producers, predators and
2022 (for one year only and then Year 4 will cover the curriculum	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. Identify that humans and some other animals have skeletons and muscles for support, protection and	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. Compare and group together	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	they 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	Compare and group materials together, according to whether they are solids, liquids or gases Observe that some materials change state when they are heated or cooled, and measure or research the temperature at which this happens in degrees Celsius (°C) Identify the part played	Humans Construct and interpret a variety of food chains, identifying producers, predators and
2022 (for one year only and then Year 4 will cover the curriculum	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. Identify that humans and some other animals have skeletons and muscles for support, protection and	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. Compare and group together a variety of	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	they 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	Compare and group materials together, according to whether they are solids, liquids or gases Observe that some materials change state when they are heated or cooled, and measure or research the temperature at which this happens in degrees Celsius (°C) Identify the part played by evaporation	Humans Construct and interpret a variety of food chains, identifying producers, predators and
2022 (for one year only and then Year 4 will cover the curriculum	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. Identify that humans and some other animals have skeletons and muscles for support, protection and	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. Compare and group together a variety of everyday	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	they 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	Compare and group materials together, according to whether they are solids, liquids or gases Observe that some materials change state when they are heated or cooled, and measure or research the temperature at which this happens in degrees Celsius (°C) Identify the part played by evaporation and	Humans Construct and interpret a variety of food chains, identifying producers, predators and
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		whether they		the way that	and associate	
		are attracted		the size of	the rate of	
		to a magnet,		shadows	evaporation	
		and identify		change.	with	
		some magnetic			temperature.	
		materials.				
		Describe				
		magnets as				
		having two				
		poles.				
		Predict				
		whether two				
		magnets will				
		attract or repel				
		each other,				
		depending on				
		which poles are				
		facing.				
Year 4 (2022-	Living things and	<u>Animals</u>	Electricity	Sound	<u>Plants</u>	<u>Plants</u>
2023 NOT	their Habitats	including	Identify common	Identify how	Identify and	Investigate the
2021-2022)	Recognise that	<u>Humans</u>	appliances that	sounds are	describe the	way in which
2021 2022)	living things can	Describe the	run on	made,	functions of	water is
Nua da land	be grouped in a	simple	electricity.	associating	different parts	transported
Due to last	variety of ways.	functions of	Construct a	some of them	of flowering	within plants.
year this being	Explore and use	the basic parts	simple series	with something	plants: roots,	Explore the
Year 3/4 Year	classification	of the digestive	electrical circuit,	vibrating.	stem/trunk,	part that
A it was	keys to help	system in	identifying and	Recognise that	leaves and	flowers play in
completed by	group, identify	humans.	naming its basic	vibrations from	flowers.	the life cycle of
all children in	and name a	Identify the	parts, including	sounds travel	Explore the	flowering
Year 3 and 4	variety of living	different types	cells, wires,	through a	requirements	plants, including
which means	things in their	of teeth in	bulbs, switches	medium to the	of plants for	pollination, seed
the children	local and wider	humans and	and buzzers.	ear. Find	life and growth	formation and
	environment.	their simple	Identify whether	patterns	(air, light,	seed dispersal.
going into Year	Recognise that	functions.	or not a lamp will	between the	water,	
4 still need to	environments can		light in a simple	pitch of a	nutrients from	
cover the Year	change and that		series circuit,	sound and	soil, and room	
3 units (Year	this can		based on	features of the	to grow) and	
B)	sometimes pose		whether or not	object that	how they vary	
	dangers to living		the lamp is part	produced it.	from plant to	
	things.		of a complete	Find patterns	plant.	
			loop with a	between the		
			battery.	volume of a		
			Recognise that a	sound and the		
			switch opens and	strength of the		
			closes a circuit	vibrations that		
			and associate	produced it.		
			this with	Recognise that		
			whether or not a	sounds get		
			lamp lights in a	fainter as the		
			simple series	distance from		
			circuit. Recognise	the sound		
			some common	source		
			conductors and	increases.		
			insulators, and			
			associate metals			
			with being good			
			conductors			
L						

Year 5	<u>Properties and</u>	<u>Properties and</u>	Earth and Space	Living things	Forces and	<u>Animals</u>
	changes of	changes of	Describe the	and their	<u>Magnets</u>	including
	<u>Materials</u>	<u>Materials</u>	movement of the	<u>Habitats</u>	Explain that	<u>Humans</u>
	Compare and	Demonstrate	Earth, and other	Describe the	unsupported	Describe the
	group together	that dissolving,	planets, relative	life process of	objects fall	changes as
	everyday	mixing and	to the Sun in the	reproduction in	towards the	humans develop
	materials on the	changes of	solar system.	some plants and	Earth because	to old age.
	basis of their	state are	Describe the	animals.	of the force of	Describe the
	properties,	reversible	movement of the		gravity acting	differences in
	including their	changes.	Moon relative to		between the	the life cycles
	hardness,	Explain that	the Earth.		Earth and the	of a mammal, an
	solubility,	some changes	Describe the		falling object.	amphibian, an
	transparency,	result in the	Sun, Earth and		Identify the	insect and a
	conductivity	formation of	Moon as		effects of air	bird.
	(electrical and	new materials,	approximately		resistance,	5.1 4.
	thermal), and	and that this	spherical bodies.		water	
	response to	kind of change	Use the idea of		resistance and	
	· ·				friction that	
	magnets. Know	is not usually	the Earth's		• • • • • • • • • • • • • • • • • • • •	
	that some	reversible,	rotation to		act between	
	materials will	including	explain day and		moving	
	dissolve in liquid	changes	night and the		surfaces.	
	to form a	associated with	apparent		Recognise that	
	solution, and	burning and the	movement of the		some	
	describe how to	action of acid	sun across the		mechanisms,	
	recover a	on bicarbonate	sky.		including levers,	
	substance from a	of soda.			pulleys and	
	solution.				gears, allow a	
	Use knowledge of				smaller force	
	solids, liquids and				to have a	
	gases to decide				greater effect.	
	how mixtures				J	
	might be					
	separated,					
	including through					
	filtering, sieving					
	and evaporating.					
	Give reasons,					
	based on					
	evidence from					
	comparative and					
	fair tests, for					
	the particular					
	uses of everyday					
	materials,					
	including metals,					
	wood and plastic.					
ear 6	Animals including	<u>Inheritance</u>	<u>Light</u>	Living Things	Electricity	
	Humans	and Evolution	Recognise that	and their		ightness of a lamp
	Identify and	Recognise that	light appears to	<u>Habitats</u>		a buzzer with the
	name the main	living things	travel in straight	(Classification)		ge of cells used in
	parts of the	have changed	lines.	Describe how	the circuit.	
	human	over time and	Use the idea that	living things are	Compare and give	reasons for
	circulatory	that fossils	light travels in	classified into	variations in how	
	system, and	provide	straight lines to	broad groups	function, includin	•
	describe the	information	explain that	according to	of bulbs, the loud	_
	functions of the		· ·	_		
		about living	objects are seen	common	and the on/off po	
	heart, blood	things that	because they	observable	switches. Use red	
	vessels and blood.	inhabited the Earth millions	give out or reflect light into	characteristics and based on	when representing in a diagram.	g a simple circuit

Recognise the	of years ago.	the eye.	similarities and	Electricity
impact of diet,	Recognise that	Explain that we	differences,	
exercise, drugs	living things	see things	including	
and lifestyle on	produce	because light	microorganisms,	
the way their	offspring of	travels from	plants and	
bodies function.	the same kind,	light sources to	animals.	
Describe the	but normally	our eyes or from	Give reasons	
ways in which	offspring vary	light sources to	for classifying	
nutrients and	and are not	objects and then	plants and	
water are	identical to	to our eyes.	animals based	
transported	their parents.	Use the idea that	on specific	
within animals,	Identify how	light travels in	characteristics.	
including humans.	animals and	straight lines to		
	plants are	explain why		
	adapted to suit	shadows have the		
	their	same shape as		
	environment in	the objects that		
	different ways	cast them.		
	and that			
	adaptation may			
	lead to			
	evolution.			