

Tatsfield Primary School Science Curriculum Map

	Autumn I	Autumn 2	Spring I	Spring 2	Summer I	Summer 2
Reception	Seasons	Earth and Space	Everyday Materials	Plants	Animals	Space
-	Look closely at similarities,	Caroline Hershel – famous	"Goldilocks and the three	When will it be spring?	Life Cycle of a Frog	Hot and Cold
	differences, patterns and	astronomer. Edmond	bears"	The Tiny Seed	Minibeasts and their	
	change	Halley - Comets!	Investigating soft and hard	Grow vegetables	Microhabitats	Research
			objects.			
	OUTDOOR	OUTDOOR		OUTDOOR	OUTDOOR	
	LEARNING	LEARNING	OUTDOOR LEARNING	LEARNING	LEARNING	
	Observation over time	Research	Observation	Comparative/ Fair testing	Observation	
	Senses Likes and dislikes –		Identifying, Grouping,	Observation over time	Identifying	
	sorting		Classifying	Pattern seeking	Mini-beasts and their	
	Observation				Microhabitats	
	Identifying, Grouping,		Animals	_	Observation	
	Classifying		Lifecycle of a butterfly	Forces	Identifying	
			Observation	Push and pull	Wolves and their	
			Identifying	Problem Solving	habitat	
				Animals including	Observation	
				humans -Healthy and unhealthy food	Identifying Plants	
				Identifying, Grouping,	Bean Plant life Cycle	
				Classifying	Comparative/ Fair testing	
				Classifying	Observation over time	
					Pattern seeking	
Year I	Seasonal changes (P) -	Everyday materials (C)	Seasonal change cont.		Seasonal change cont.	
	the four seasons	OUTDOOR `	Animals including human	ns (B) identify, name,	Plants (B) common plants a	and basic structure
	OUTDOOR	LEARNING	describe and compare animal		OUTDOOR LEARNING	
	LEARNING	Distinguish between an	Identify and name a variety of	f common animals including	Identify and name a variety o	f common wild and garden
	Observe changes across the	object and the material	fish, amphibians, reptiles, bird	ls and mammals.	plants, including deciduous a	
	four seasons.	from which it is made.	Identify and name a variety of		Identify and describe the bas	
	Observe and describe	Identify and name a variety	carnivores, herbivores and or		common flowering plants, in	
	weather associated with	of everyday materials,	Describe and compare the st	•		and recognising that they can
	the seasons and how day	including wood, plastic,	common animals (fish, amphil	bians, reptiles, birds and	be answered in different way	
	length varies.	glass, metal, water, and	body and say which part of the body is associated with		WS3 performing simple tests	
	WS2 observing closely,	rock.			WS4 identifying and classifying	
	using simple equipment	Describe the simple			WS6 gathering and recording	g data to help in answering
	WS6 gathering and	physical properties of a	each sense.		questions.	
	recording data to help in	variety of everyday	WS4 identifying and classifyin		Identifying, classifying and gro	ouping
	answering questions.	materials.	Identifying, classifying and gro	uping	Observation over time	
		Compare and group			Comparative and fair testing	

	Observing over time	together a variety of everyday materials on the basis of their simple physical properties. WS1 asking simple questions and recognising that they can be answered in different ways WS2 observing closely, using simple equipment WS3 performing simple tests WS5 using their observations and ideas to suggest answers to questions Comparative and fair testing Identifying, classifying and grouping			Pattern seeking Research	
Year 2	Uses of everyday materials (C) Identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses. WS1 asking simple questions and recognising that they can be answered in different ways WS2 observing closely, using simple equipment WS3 performing simple tests WS4 identifying and classifying WS5 using their observations and ideas to suggest answers to questions	Uses of everyday materials cont. Find out how the shapes of solid objects made from some materials can be changed by Identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses. Find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching. squashing, bending, twisting and stretching. WSI asking simple questions and recognising that they can be answered in different ways	WSI asking simple questions and recognising that they can be answered in different ways WS4 identifying and classifying WS5 using their observations and ideas to suggest answers to questions WS6 gathering and recording data to help in answering questions. Research Observing over time Pattern-seeking Identifying, grouping and classifying Problem-solving	Plants cont. OUTDOOR LEARNING seeds and bulbs, how plants need water and light to grow Observe and describe how seeds and bulbs grow into mature plants. Find out and describe how plants need water, light and a suitable temperature to grow and stay healthy. WS1 asking simple questions and recognising that they can be answered in different ways WS2 observing closely, using simple equipment WS3 performing simple tests WS4 identifying and classifying WS5 using their	Living things and their habitats (B) OUTDOOR LEARNING Explore and compare the differences between things that are living, dead, and things that have never been alive. Identify that most living things live in habitats to which they are suited and describe how different habitats provide for the basic needs of different kinds of animals and plants, and how they depend on each other. Identify and name a variety of plants and animals in their habitats. Describe how animals obtain their food from	Animals including humans (B) OUTDOOR LEARNING offspring, needs for survival, exercise, food and hygiene Notice that animals, including humans, have offspring which grow into adults. Find out about and describe the basic needs of animals, including humans, for survival (water, food and air). Describe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene. WS1 asking simple questions and recognising that they can be answered in different ways

	Comparative/fair-testing Observing over time Identifying, grouping and classifying Problem-solving	WS2 observing closely, using simple equipment WS3 performing simple tests WS4 identifying and classifying WS5 using their observations and ideas to suggest answers to questions Comparative/fair-testing Observing over time Identifying, grouping and classifying		observations and ideas to suggest answers to questions WS6 gathering and recording data to help in answering questions. Research Observing over time Identifying, grouping and classifying	plants and other animals, using the idea of a simple food chain, and identify and name different sources of food. WSI asking simple questions and recognising that they can be answered in different ways WS2 observing closely, using simple equipment WS3 performing simple tests WS4 identifying and classifying WS5 using their observations and ideas to suggest answers to questions WS6 gathering and recording data to help in answering questions. Comparative/fair-testing Research Observing over time Pattern-seeking Identifying, grouping and classifying Problem-solving	WS2 observing closely, using simple equipment WS4 identifying and classifying WS5 using their observations and ideas to suggest answers to questions WS6 gathering and recording data to help in answering questions. Comparative/fair-testing Research Observing over time Pattern-seeking Identifying, grouping and classifying Problem-solving
Year 3	Rocks (C) fossils and soil 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. WS2 Setting up simple practical enquiries,	Forces and magnets (P) 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 materials on the basis of whether they are attracted to a magnet, and	Animals including humans (B) nutrition 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. Identifying and Classifying Observation Research	Animals including humans cont. skeletons and muscles Identify that humans and some other animals have skeletons and muscles for support, protection and movement.	Plants (B) life cycle of flowers, how water is transported in plants 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 (air, light, water, nutrients from soil, and room to grow) and how they vary from plant to plant. Investigate the way in which water is transported within	Light (P) reflection and shadows Recognise that 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 a solid object.

comparative and fair tests. WS3 Making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers. WS4 Gathering, recording, classifying and presenting

WS4 Gathering, recording, classifying and presenting data in a variety of ways to help in answering questions. WS7 Using results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions. WS9 Using straightforward scientific evidence to answer questions or to support their findings. Identifying and Classifying,

Observation

identify some magnetic materials.

Describe magnets as having two poles.

Predict whether two magnets will attract or repel each other, depending on which poles are facing.
WS2 Setting up simple

comparative and fair tests. WS3 Making systematic and careful observations and, where appropriate, taking

practical enquiries,

accurate measurements
using standard units, using a
range of equipment,

including thermometers and data loggers.

WS4 Gathering, recording, classifying and presenting data in a variety of ways to help in answering questions. WS6 Reporting on findings from enquiries, including oral and written explanations, displays or

explanations, displays or presentations of results and conclusions.
WS7 Using results to draw

simple conclusions, make predictions for new values, suggest improvements and raise further questions.

Comparative and fair testing Problem solving

plants.

Explore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal.

WS2 Setting up simple practical enquiries, comparative and fair tests. WS3 Making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers.

WS4 Gathering, recording, classifying and presenting data in a variety of ways to help in answering questions. WS5 Recording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables.

WS6 Reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions.

WS7 Using results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions. WS9 Using straightforward scientific evidence to answer questions or to support their findings. Observation over time Pattern seeking Comparative and fair

Find patterns in the way that the size of shadows change.

WS2 Setting up simple practical enquiries, comparative and fair tests. WS3 Making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers.

WS4 Gathering, recording, classifying and presenting data in a variety of ways to help in answering questions. WS5 Recording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables.

WS6 Reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions.

WS7 Using results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions. WS9 Using straightforward scientific evidence to answer questions or to support their findings.

Pattern seeking
Observation over time

Year 4	Electricity (P) appliances,
	simple circuits, series,
	switches, conductors,
	insulators
	Identify common appliances
	that run on electricity.
	Construct a simple series
	electrical circuit, identifying
	and naming its basic parts,
	including cells, wires, bulbs,
	switches and buzzers.
	Identify whether or not a
	lamp will light in a simple
	series circuit, based on
	whether or not the lamp is
	part of a complete loop
	with a battery.
	Recognise that a switch
	opens and closes a circuit
	and associate this with
	whether or not a lamp
	lights in a simple series
	circuit.
	Recognise some common
	conductors and insulators,
	and associate metals with
	being good conductors.
	WSI Asking relevant
	questions and using
	different types of scientific
	enquiries to answer them.
	WS2 Setting up simple
	practical enquiries,
	comparative and fair tests.
	WS3 Making systematic and
	careful observations and,
	where appropriate, taking
	accurate measurements
	using standard units, using a
	range of equipment,
	including thermometers
	and data loggers.
	WS5 Recording findings
	using simple scientific

using simple scientific

States of matter (C) solids, liquids, gases, evaporation and condensation Compare and group materials together, according to whether they are solids, liquids or gases. WSI Asking relevant questions and using different types of scientific enquiries to answer them. WS2 Setting up simple practical enquiries, comparative and fair tests. WS3 Making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers. WS4 Gathering, recording, classifying and presenting data in a variety of ways to help in answering questions. WS6 Reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions WS7 Using results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions. WS9 Using straightforward scientific evidence to answer questions or to support their findings. Comparative/fair testing,

Sound (P) vibration, pitch, volume Identify how sounds are made, associating some of them with something vibrating. Recognise that vibrations from sounds travel through a medium to the ear. Find patterns between the pitch of a sound and features of the object that produced it. Find patterns between the volume of a sound and the strength of the vibrations that produced it. Recognise that sounds get fainter as the distance from the sound source increases. **OUTDOOR LEARNING** WSI Asking relevant questions and using different types of scientific enquiries to answer them. WS2 Setting up simple practical enquiries, comparative and fair tests. WS4 Gathering, recording, classifying and presenting data in a variety of ways to help in answering questions. WS5 Recording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables. WS6 Reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions

testing. Living things and their habitats (B) classification keys, human impact on environments Recognise that living things can be grouped in a variety of ways. Explore and use classification keys to help group, identify and name a variety of living things in their local and wider environment. Recognise that environments can change and that this can sometimes pose dangers to living things. **OUTDOOR LEARNING** WS3 Making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers. WS5 Recording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables. WS6 Reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions WS8 Identifying differences, similarities or changes related to simple scientific ideas and processes. Research, identifying, grouping and classifying and

Animals including humans (B) digestive system, teeth and food chains Describe the simple functions of the basic parts of the digestive system in humans. Identify the different types of teeth in humans and their simple functions. Construct and interpret a variety of food chains, identifying producers, predators and prey. WS3 Making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers. WS5 Recording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables. WS6 Reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions WS8 Identifying differences, similarities or changes related to simple scientific ideas and processes. Research and identifying, grouping and classifying

language, drawings, labed diagrams, keys, bar char and tables. WS6 Reporting on find from enquiries, including oral and written explanations, displays of presentations of result conclusions WS7 Using results to display conclusions, may predictions for new values suggest improvements raise further questions. Pattern-seeking and problem-solving	rts, ings or s and lraw ke ues, and	research, observation over time and identifying, grouping and classifying	Comparative/fair testing and pattern-seeking	problem-solving	
Year 5 Properties and chan of materials (C)hard solubility, transparency conductivity, response magnets Compare and group together everyday mat on the basis of their properties, including th hardness, solubility, transparency, conducti (electrical and thermal) response to magnets. Know that some mater will dissolve in liquid to form a solution, and describe how to recov substance from a solut OUTDOOR LEARNIN Use knowledge of solid liquids and gases to dee how mixtures might be separated, including through filtering, sievin and evaporating. Give reasons, based or evidence from comparand fair tests, for the	of materials cont. WS1 Planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary. WS2 Taking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate. Comparative/fair testing Identifying, grouping and classifying Problem-solving	Forces (P) gravity, air/water resistance, friction, force and motion Explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object. Identify the effects of air resistance, water resistance and friction, that act between moving surfaces. Recognise that some mechanisms, including levers, pulleys and gears, allow a smaller force to have a greater effect. WS3 Recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs. WS5 Reporting and presenting findings from enquiries, including	Earth and space (P) The solar system Describe the movement of the Earth, and other planets, relative to the Sun in the solar system. OUTDOOR LEARNING Describe the movement of the Moon relative to the Earth. Describe the Sun, Earth and Moon as approximately spherical bodies. OUTDOOR LEARNING Use the idea of the Earth's rotation to explain day and night and the apparent movement of the sun across the sky. WS6 Identifying scientific evidence that has been used to support or refute ideas or arguments. WS5 Reporting and presenting findings from enquiries, including conclusions, causal relationships and	Living things and their habitats (B) life cycles and reproduction Describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird. Describe the life process of reproduction in some plants and animals. WS? Research Observation over time Animals including humans (B) human development from birth to old age Describe the changes as humans develop to old age. WS6 Identifying scientific evidence that has been used to support or refute ideas or arguments. WS5 Reporting and presenting findings from enquiries, including conclusions, causal	Sex and Relationship Education (B) Developing a healthy, safer lifestyle To know how the body changes as they approach puberty To understand that the life processes common to humans and other animals include nutrition, movement, growth and reproduction; To understand the main stages of the human life cycle To understand that the life processes common to humans and other animals include nutrition, movement, growth and reproduction To know the different risks in social situations and then decide how to behave

	particular uses of everyday materials, including metals, wood and plastic. Demonstrate that dissolving, mixing and changes of state are reversible changes. Explain that some changes result in the formation of new materials, and that this kind of change is not usually reversible, including changes associated with burning and the action of acid on bicarbonate of soda.		conclusions, causal relationships and explanations of and degree of trust in results, in oral and written forms such as displays and other presentations. Comparative/fair testing Pattern-seeking Problem-solving	explanations of and degree of trust in results, in oral and written forms such as displays and other presentations. Research Observation over time Pattern-seeking	relationships and explanations of and degree of trust in results, in oral and written forms such as displays and other presentations. Research Observation over time	responsibly, including judging what kind of contact is acceptable and unacceptable; Be able to develop good relationships and respecting the differences between people; Understand the nature and consequences of racism, teasing, bullying and aggressive behaviours and how to respond to them and ask for help WS5 Reporting and presenting findings from enquiries, including conclusions, causal relationships and explanations of and degree of trust in results, in oral and written forms such as displays and other presentations. WS6 Identifying scientific evidence that has been used to support or refute ideas or arguments.
Year 6	Animals including humans (B) circulatory system, diet, exercise, lifestyle OUTDOOR LEARNING Identify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and blood. Recognise the impact of diet, exercise, drugs and lifestyle on the way their	Electricity (P) voltage, simple circuit diagrams Associate the brightness of a lamp or the volume of a buzzer with the number and voltage of cells used in the circuit. Compare and give reasons for variations in how components function, including the brightness of bulbs, the loudness of buzzers and the on/off position of switches. Use recognised symbols	Evolution and inheritance (B) Recognise that living things have changed over time and that fossils provide information about living things that inhabited the Earth millions of years ago. Recognise that living things produce offspring of the same kind, but normally offspring vary and are not identical to their parents. Identify how animals and plants are adapted to suit	Evolution and inheritance cont.	Living things and their habitats (B) classification, characteristics and why we classify plants and animals OUTDOOR LEARNING Describe how living things are classified into broad groups according to common observable characteristics and based on similarities and differences, including microorganisms, plants and animals.	Light (P) how light behaves OUTDOOR LEARNING Recognise that light appears to travel in straight lines. Use the idea that light travels in straight lines to explain that objects are seen because they give out or reflect light into the eye. Explain that we see things because light travels from light sources to our eyes or from light sources to

bodies function.

Describe the ways in which nutrients and water are transported within animals, including humans.

WS1 Planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary.

WS2 Taking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate.

WS3 Recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs.

WS4 Using test results to make predictions to set up further comparative and fair tests.

WS5 Reporting and presenting findings from enquiries, including conclusions, causal relationships and explanations of and degree of trust in results, in oral and written forms such as displays and other presentations.

Observation over time Pattern-seeking Comparative/Fair testing Research Problem-solving when representing a simple circuit in a diagram.

WS1 Planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary.

WS2 Taking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate.

WS3 Recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs.

Using test results to make predictions to set up further comparative and fair tests.

WS5 Reporting and presenting findings from enquiries, including conclusions, causal relationships and explanations of and degree of trust in results, in oral and written forms such as displays and other presentations.

Comparative/Fair testing Research

Pattern-seeking

Problem Solving

their environment in different ways and that adaptation may lead to evolution.

WS5 Reporting and presenting findings from enquiries, including conclusions, causal relationships and explanations of and degree of trust in results, in oral and written forms such as displays and other presentations.

WS6 Identifying scientific

evidence that has been used to support or refute ideas or arguments.

Research

Observation over time Identifying, grouping and classifying

Give reasons for classifying plants and animals based on specific characteristics.

WS1 Planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary.

WS3 Recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs.

WS5 Reporting and presenting findings from enquiries, including conclusions, causal relationships and explanations of and degree of trust in results, in oral and written forms such as displays and other presentations.

WS6 Identifying scientific

WS6 Identifying scientific evidence that has been used to support or refute ideas or arguments.

Comparative/Fair testing Identifying, grouping and classifying Problem solving Research objects and then to our eyes.

Use the idea that light travels in straight lines to explain why shadows have the same shape as the objects that cast them.

WSI Planning different

types of scientific enquiries to answer questions, including recognising and controlling variables where necessary.

WS2 Taking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate.

WS3 Recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs.

WS4 Using test results to make predictions to set up further comparative and fair tests.

WS5 Reporting and presenting findings from enquiries, including conclusions, causal relationships and explanations of and degree of trust in results, in oral and written forms such as displays and other presentations.

Comparative/Fair testing

Research
Problem-solving



Tatsfield Primary School Science Curriculum Progression Map

	Reception	Year I	Year 2	Year 3	Year 4	Year 5	Year 6
Animals, including humans	Reception	Identify and name a variety of common animals including fish, amphibians, reptiles, birds and mammals Identify and name a	Notice that animals, including humans, have offspring which grow into adults Find out about and	Identify that animals, including humans, need the right types and amount of nutrition, and that they cannot make their own food; they get nutrition	Describe the simple functions of the basic parts of the digestive system in humans Identify the different types of teeth in	Describe the changes as humans develop to old age	Identify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and
		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) Identify, name, draw and label the basic parts of the human body and say which part of the body is associated with each sense	describe the basic needs of animals, including humans, for survival (water, food and air) Describe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene	from what they eat Identify that humans and some other animals have skeletons and muscles for support, protection and movement	humans and their simple functions Construct and interpret a variety of food chains, identifying producers, predators and prey		blood Recognise the impact of diet, exercise, drugs and lifestyle on the way their bodies function Describe the ways in which nutrients and water are transported within animals, including humans
Living things and their habitats			Explore and compare the differences between things that are living, dead, and things that have never been alive Identify that most living things live in habitats to which they are suited and describe how different habitats provide for the basic		Recognise that living things can be grouped in a variety of ways explore and use classification keys to help group, identify and name a variety of living things in their local and wider environment Recognise that environments can change and that this can sometimes pose	Describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird Describe the life process of reproduction in some plants and animals	Describe how living things are classified into broad groups according to common observable characteristics and based on similarities and differences, including microorganisms, plants and animals Give reasons for classifying plants and animals based on

			needs of different		dangers to living		specific characteristics
			kinds of animals and				specific characteristics
					things		
			plants, and how they				
			depend on each				
			other				
			Identify and 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				
			sources of food	-			
Plants		Identify and name a	Observe and	Identify and describe the			
		variety of common wild	describe how seeds	functions of different parts			
		and garden plants,	and bulbs grow into	of flowering plants: roots,			
		including deciduous and	mature plants	stem/trunk, leaves and			
		evergreen trees	Find out and	flowers			
		Identify and describe the	describe how plants	Explore the requirements of			
		basic structure of a	need water, light	plants for life and growth			
		variety of common	and a suitable	(air, light, water, nutrients			
		flowering plants, including	temperature to	from soil, and room to			
		trees	grow and stay	grow) and how they vary			
		c. 223	healthy	from plant to plant			
			Heartry	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			
Materials		Distinguish between an	Identify and			Compare and group	
		object and the material	compare the			together everyday	
		from which it is made	suitability of a			materials on the basis of	
		Identify and name a	variety of everyday			their properties, including	
		variety of everyday	materials, including			their hardness, solubility,	
		materials, including wood,	wood, metal, plastic,			transparency, conductivity	
		plastic, glass, metal, water,	glass, brick, rock,			(electrical and thermal),	
	I .	places, glass, metal, water,	8 a. 20, Di icit, i Ocit,		1	(c.ccarical and chermal);	

	and rock	paper and		and response to magnets	
	Describe the simple physical	cardboard for		know that some	
	properties of a variety of	particular uses		materials will dissolve in	
	everyday materials	Find out how the		liquid to form a solution,	
	Compare and group	shapes of solid		and describe how to	
	together a variety of	objects made from		recover a substance from	
	everyday materials on the	some materials		a solution	
	basis of their simple	can be changed by		use knowledge of solids,	
	physical properties	squashing, bending,		liquids and gases to decide	
	projecti properties	twisting and		how mixtures might be	
		stretching		separated, including	
		Ju cuming		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	
				Demonstrate that	
				dissolving, mixing and	
				changes of state are reversible changes	
				Explain that some	
				changes result in the formation of new	
				materials, and that this	
				kind of change is not	
				usually reversible,	
				including changes	
				associated with burning	
				and the action of acid on	
Doelse			Company and success to sell the	bicarbonate of soda	
Rocks			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 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 condensation in the		
		water cycle and associate the rate of evaporation with temperature		Associate the
		appliances that run on electricity Construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers Identify whether or not a lamp will light in a simple series circuit, based on whether or not the lamp is part of a complete loop with a battery Recognise that a switch opens and closes a circuit and		brightness of a lamp or the volume of a buzzer with the number and voltage of cells used in the circuit Compare and give reasons for variations in how components function, including the brightness of bulbs, the loudness of buzzers and the on/off position of switches Use recognised symbols when representing a simple circuit in a diagram
		matter	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 Celisus (°C) • Identify the part played by evaporation and condensation in the water cycle and associate the rate of evaporation with temperature lidentify common appliances that run on electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers Identify whether or not a lamp will light in a simple series circuit, based on whether or not the lamp is part of a complete loop with a battery Recognise that a switch opens 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 which this happens in degrees Celsius (°C) Identify the part played by evaporation and condensation in the water cycle and associate the rate of evaporation with temperature Identify common appliances that run on electricity Construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers Identify whether or not a lamp will light in a simple series circuit, based on whether or not the lamp is part of a complete loop with a battery Recognise that a switch opens and

		associate this with
		whether or not a
		lamp lights in a
		simple series circuit
		Recognise some
		common conductors
		and insulators, and
		associate metals with
		being good
		conductors
Earth and		Describe the movement
		of the Earth and other
Space		
		planets relative to the sun
		in the solar system
		Describe the movement
		of the moon relative to
		the Earth
		Describe the sun, Earth
		and moon as
		approximately spherical
		bodies
		Use the idea of the Earth's
		rotation to explain day
		and night and the apparent
		movement of the sun
		across the sky
Sananal .	Ohaania ahaasaa asiisaa	aci oss tile sky
Seasonal	Observe changes across	
Changes	the 4 seasons	
	Observe and describe	
	weather associated with	
	the seasons and how day	
	length varies	
Sound		Identify how sounds
		are made, associating
		some of them with
		something vibrating
		Recognise that
		vibrations from
		sounds travel through
		a medium to the ear
		Find patterns
		between the pitch of
		a sound and features
		of the object that
		produced it

			Find patterns between the volume		
			of a sound and the		
			strength of the		
			vibrations that		
			produced it		
			Recognise that sounds		
			get fainter as the distance from the		
			sound source		
			increases		
Light		Recognise that they need			Recognise that light
		light in order to see things			travels in straight lines
		and that dark is the absence			Use the idea that light
		of light			travels in straight lines
		Notice that light is reflected			to explain that objects
		from surfaces			are seen because they
		Recognise that light from			give out or reflect
		the sun can be dangerous and that there are ways to			light into the eye Explain that we see
		protect their eyes			things because light
		Recognise that shadows are			travels from light
		formed when the light from			sources to our eyes or
		a light source is blocked by			from light sources to
		an opaque object			objects and then to
		Find patterns in the way that			our eyes
		the size of shadows change			Use the idea that light
					travels in straight lines
					to explain why
					shadows have the
					same shape as the
<u> </u>					objects that cast them
Forces and		Compare how things move on different surfaces		Explain that unsupported	
Magnets		Notice that some forces		objects fall towards the Earth because of the force	
		need contact between 2		of gravity acting between	
		objects, but magnetic forces		the Earth and the falling	
		can act at a distance		object	
		Observe how magnets		Identify the effects of air	
		attract or repel each other		resistance, water	
		and attract some materials		resistance and friction,	
		and not others		that act between moving	
		Compare and group		surfaces	
		together a variety of		Recognise that some	
		everyday materials on the		mechanisms including	

		basis of whether they are	levers, pulleys and gears	
		attracted to a magnet, and	allow a smaller force to	
		identify some magnetic	have a greater effect	
		materials		
		Describe magnets as having 2		
		poles		
		predict whether 2 magnets		
		will attract or repel each		
		other, depending on which		
		poles are facing		
Evolution		poles alle lacilig		December that living
				Recognise that living
and				things have changed
Inheritance				over time and that
				fossils provide
				information about
				living things that
				inhabited the Earth
				millions of years ago
				Recognise that living
				things produce
				offspring of the same
				kind, but normally
				offspring vary and are
				not identical to their
				parents
				Identify how animals
				and plants are adapted
				to suit their
				environment in
				different ways and that
				adaptation may lead to
				evolution
				evolution