Autumn 1   Autumn 2   Spring 1   Sound (S)	1. Ider of mate glass, r 2. Class according physica 3. Com	entify and name a range terials ( wood, plastic , metal, water and rock) ssifying and grouping ding to a range of	(S) 1. Features of day and night including temperature	Sound (S) 1. Identify how sounds are made – something	Animals ( including Humans) (S)	1. Identify and name a	
	materia propert  Can the Disting and materia propert Disting and materia propert Describes and materia Describes and materia Describes and materia Describes and properties	ner a variety of everyday rials based on physical ries  hey  guish between object naterial made from;  ibe materials using sis, using scientific nulary  in why material might ed  in how solid shapes can ge  enge: Can they  ibe similarities and ences between rials?  in what happens to n materials when d?  in what happens to	with seasons  Can they Observe changes across the four seasons?  Observe and describe weather associated with the seasons and how day length varies?  Observe features in the environment and explain that these are related to specific seasons?  Talk about weather variation in different parts of the world?  Challenge: Can they  Explain why does it get darker earlier in winter? Or How do the seasons impact on	sounds and explain how they are made  3. Explain how to change a sound ( loud/soft)  4. Recognise that vibrations from sound travels through a medium to the ear.  Can they  Identify the five senses: see, touch, smell, hear and taste?  Use simple equipment to help recognise each sense? Explain what they have found out using scientific vocabulary?  Challenge: Can they  Classify how sounds of different instruments are produced-blowing, plucking, bowing,	fish, amphibians, reptiles, birds and mammals)  2. Know and classify carnivores, herbivores and omnivores  3. How to care for pets  4. Name parts of the human body  Can they  Point out differences between different animals?  Sort photographs of living and non-living things?  Identify and name a variety of common animals?  Can they draw & label basic parts of the human body?  Challenge: Can they  Classify animals according to a number of given criteria?  Name some parts of the human body that cannot be seen?  Point out the differences between living and non-living	and green plants, including deciduous and evergreen trees.  2. Identify and describe the basic structure of a variety of common flowering plants, including trees.  Can they  Identify and label plants, including trees  Describe the parts of a plant - roots, stem, flower, etc.  Name the trunk, branches and root of a tree?  Challenge: Can they  Explain the function of roots, trunk and flowers?  Name the petals, stem, leaf, bulb, flower, seed, stem and root of a plant?  Sort some plants by those that can be eaten and	mini beasts  1 .Use of scientific equipment for observations using magnifying glasses,; comparing and contrasting different mini beasts; describing, identifying and grouping; drawing, recording using measurements, graphs, charts or tables.  Can they  Find out by watching and give simple reason for answers?  Explain what they have found out using scientific vocabulary?  Record findings using standard units?  Put information in a chart or table?  Use ICT to show their working?  Record data and results  Challenge: Can they Identify different features of the different mini-beasts? Can they identify similarities?  Learn how to attract mini-beasts to an outdoor area e.g. technology garden, home garden, etc.  Understanding the importance of mini-beasts in the environment and why?  Use knowledge of seasonal changes

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year	Plants: (S)	Animals, including humans	Everyday Materials (S)	Forces and	Sound (NS)	Living things, Habitats &
2	1. What plants and seeds need to grow	(S)	1. Identify and compare	Movement (NS)	1. Observe and name	Food Chains (S)
2		Exercise and healthy living	the suitability of everyday	1. Describe how things	a variety of sources	1. Explore and compare
	2. Growing from seeds and bulbs	2. What animals and humans need	materials	move at different	of sound and hear	differences between things
		to survive	2. Find out how the	speeds, speed up and	with our ears.	that are living, dead and non-
	3. Observe and describe how seeds and	3. Animals have offspring, which	shapes of solid objects	slow down, using	2. Recognise that	living.
	bulbs grow into mature plants	grow to be adults	can change – squashing,	simple comparisons, comparative	sounds get fainter as	2. Identify and name a variety
	4. Find out and describe how plants	One than	bending, twisting &	vocabulary and	the distance from the	of plants and animals in their
	need water, light and suitable	Can they Notice that animals, including	stretching.	superlative vocabulary.	sound source	habitats, including micro–
	temperature to grow and stay healthy	humans, have offspring, which grow			increases.	habitats.
		into adults.	Can they	2. Compare how things		
	Can they		Describe the simple	move on different	Can they	3. Describe how animals
	Carry out a Fair Test?	Find out about and describe the	properties of a variety of	surfaces.	Compare different	obtain their food from plants
		basic needs of animals, including	everyday materials?	l	sound sources and	and other animals.
	Explain why it might not be fair to	humans for survival ( water, food	Compare and group a	3. Make and record a	look for patterns?	A Haing a food aboin and
	compare two things?	and air)	variety of materials	prediction before testing.	Carry out tests to find	4. Using a food chain and identify and name different
	Say whether things happened as they	<b>5</b>	based on physical	testing.	the best places to	sources of food.
	expected?	Describe why exercise, balanced diet and hygiene are important for	properties, using words	Can they	locate fire alarms at	Sources of food.
	cpootou.	humans?	like, transparent, opaque,	Plan a fair test and	home and in school?	Can they
	Suggest how to find things out?	numans:	flexible, etc.?	explain why it was fair.		•
		Name the food groups and basic			Perform simple tests	Classify things according to
	Use prompts to find things out?	functions of each group?	Explain how materials	Explain the impact of	to measure distances	whether they are living, dead
		<u> </u>	are changed by heating	friction on a moving	at which sound can	or never alive.
	Use some scientific words to describe	Describe the importance for	and cooling?	object?	and cannot be heard? e.g. make	December to the disease contest
	what they have seen and measured?	humans of exercise, eating the right	Tell which materials	Carry out an	simple telephone	Record their findings using simple charts or tables?
	Describe life processes common to	amount of different types of food,	cannot be changed back	investigation, record	simple telephone	simple charts or tables?
	plants and animals, including human	and hygiene.	after heating, cooling,	and explain results?	Explain the function	Create a food chain and
	beings?	Identify animals and plants by a	bending, stretching or	and explain results.	of the ear for	explain what and examples of
	<b>3</b>	specific criterion, e.g. lay eggs or	twisting?	Explain what happens	hearing?	tertiary, primary and
	Describe how seeds and bulbs grow into	not: have feathers or not?		when an object is		secondary consumers.
	plants?	,	Classify and use methods	pushed or pulled?	<b>Challenge:</b> Can	
		Describe the cycle of some living	to record observations or		they	Challenge: Can they
	Describe what plants needs to grow and	things? E.g. egg, chick, chicken	investigations?	Challenge: Can they	<b>5</b>	
	stay healthy?		Obellands, Ossalla	Han a signification of	Describe how many ways do we depend	Understand difference
	Compare how plants grow in different	Challenge: Can they	Challenge: Can they	Use scientific language,	on sound in everyday	between a food chain and a
	conditions by making measurements?	Suggest more than one way of	Say which materials are	drawings labelled diagrams, bar charts or	life?	food web?
	constitution of making model of months.	grouping animals and plants and	natural and which are	tables to record speed		Create a food web and
	Challenge: Can they	explain their reasons?	man- made? Find out	and direction of moving	Design and make a	identify the roles of each
	Use information from books and online	Use text, diagrams, pictures, charts,	about inventors e.g.	objects?	musical instrument	consumer?
	information to find things out?	tables to record their observations?	Dunlop, Mackintosh,	,	with given	
	oudon to mid tilligo out:	taxios to record their observations:	McAdam, etc.		specification?	
	Explain that plants grow and reproduce	Can they design a balanced diet for				
	in different ways from animals?	an athlete?				

Year 3	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
	Materials & Properties	Magnets – (S)	Forces - (S)	Animals - Including	Plants (S )	Light and Shadows (S)
	- Rocks (S)	1. Notice that some forces	1.Understand what is friction	Humans ( S)	1. Identify and describe the	1. Recognise that they need
	1. Compare and group	need contact between two	and how does it affect	1. Identify and group	functions of different parts of	light in order to see things and
	together different kinds	objects, but magnetic	moving objects	animals with and without	flowering plants: roots,	that darkness is the absence
	of rocks on the basis of	forces can act at a distance		skeletons and observing	stem/trunk. Leaves and flowers	of light
	their appearance and	0.00	2. Compare how things move	and comparing their	O Fundamenth a manufactura manufact	O Notice that light is
	simple physical	2. Observe how magnets	on different surfaces	movement	2. Explore the requirements of	2. Notice that light is
	properties	attract or repel each other and attract some materials	3. Understand that force is a	0.5	plants for life and growth ( air, light, water, nutrients from soil	reflected from surfaces
	O Beauthain simula	and not others	push or a pull of an object	2. Explore ideas about	and room to grow) and how the	3. Recognise that light from
	2. Describe in simple terms how fossils are	and not others	that causes the object to	what would happen if humans did not have	vary from plant to plant	the sun can be dangerous and
	formed when things that	3. Compare and group	speed up, slow down or stay	skeletons	vary from plant to plant	that there are ways to protect
	have lived are trapped	together a variety of	in one place.	Skeletoris	3. Investigate the way in which	themselves
	within rock	everyday materials on the	in one place.	3. Identify that animals,	water is transported within	thomosivos
	Within Tock	basis of whether they are	Can they	including humans, need the	plants	3. Recognise that shadows
	3. Recognise that soils	attracted to a magnet, and	Explain how surface type	right types and amount of	, and the second	are formed when the light
	are made from rocks and	identify some magnetic	influences the amount of	nutrition, and that they	4. Explore the part that flowers	from a light source is blocked
	organic matter	materials	friction there is?	cannot make their own	play in the life cycle of flowering	by a solid object
			Discuss relationship between	food; they get nutrition	plants, including pollination,	-
	Can they	4. Describe magnets as	the size or weight of and	from what they eat	seed formation and seed	4. explain the relationship
	Describe and explain how	having two poles ( N & S )	object and the amount of	-	dispersal.	between the Sun and Moon (
	different rocks can be		friction that is present?	4. Identify parts that		in terms of lightning up the
	useful to us?	5. Predict whether two	Explain how friction can be	humans and some other	Can they	moon)?
		magnets will attract or	both a positive and negative	animals have skeletons	Compare the effect of different	
	Describe and explain the	repel each other,	aspect in our everyday lives?	and muscles for support,	factors on plant growth?	Can they
	differences between	depending on which poles	Make and record a prediction	protection and movement	B	Explain why lights need to be
	sedimentary and igneous	are facing.	before testing?		Discover how seeds are formed	bright or dimmer
	rocks, considering the		Plan a fair test and explain why it was fair?	Can they	by observing the different stages of plant life cycles over	Explain the difference
	way they are formed and classify them into	Can they	Set up simple fair test to	Explain the importance of a nutritious balanced diet?	time?	between transparent, translucent and opaque?
	groups?	Classify which materials are attracted to magnets	make comparisons?	nutritious balanced diet?	une:	Explain why lights need to be
	groups:	and which are not?	Make accurate	Describe how nutrients,	Look for patterns in the	bright or dimmer according to
	Begin to relate the	and which are not:	measurements using	water and oxygen are	structure of fruits that relate to	need?
	properties of rocks with	Identify some magnetic	standard units?	transported within animals,	how the seeds are dispersed?	Make a bulb go on and off?
	their uses?	materials?	Record their observations in	humans and plants?	Identify the functions of	Say what happens to the
			different ways?	Describe and explain the	different parts of plants?	electricity when more
	Explain why they need to	Investigate the strengths of	Describe what they have	skeletal system of a		batteries are added in a fair
	collect information to	different magnets and find	found using scientific	human?	Explain how the needs and	test?
	answer a question?	fair ways to compare	language?	Name all the parts of a	functions of plant parts vary	Explain why their shadow
		them?		human anatomy and their	from plant to plant e.g. insect	changes when the light
	Challenge: Can they		Challenge: Can they	functions?	and wind pollinated plants?	sources is moved closer or
	Record and present what	Challenge: Can they	Explain their findings in			further from the object?
	they have found using	Make and record a	different ways (display,	Challenge: Can they	Challenge: Can they	
	scientific language,	prediction before testing?	presentation, writing)?	Record and present what	Classify a range of common	Challenge: Can they
	drawings, labelled	Use scientific language,	Use findings to draw a simple	they have found in different	plants according to many	Measure the lengths of their
	diagrams and charts?	explain findings and	conclusion and suggest	ways ( display,	criteria ( environment found,	shadows and to present their
		suggest test to improve?	further improvements?	presentation, writing)?	size, climate required, etc.	findings in graphical format.
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	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 4	States of Matter (S) - Gas,	States of Matter (S) -	Habitats (S )- Sayers Croft	Animals, including	Electricity ( S )	Sound (S)
· cui ·	Liquid & Solids	Water cycle	1. Recognise that living	Humans (S)	1. Identify common	1. Identify how sounds are
	1. Compare and group materials	1.Identify the part of played	things can be grouped in a	1.Describe the simple	appliances	made, associating some of
	together, according to whether	by evaporation and	variety of ways	functions of the basic parts	2. Construct a simple series	them with something
	they are solids, liquids or gas	condensation in the water	2. Explore and use	of the digestive system in	of electrical circuit,	vibrating
	2. Observe that some materials	cycle and associate the	classification keys to help	humans	identifying and naming its	2. Recognise that
	change state when they are	rate of evaporation with	group, identify and name a	2. Identify the different	basic parts: cells, wires,	vibrations from sounds
	heated or cooled, and measure or	temperature	variety of living things in their	types of teeth in humans	bulbs, switches and buzzers	travel through a medium to
	research the temperatures at	2. Work scientifically to	local and wider environment	and their simple functions	3. Identify whether or not a	the ear
	which this happens in degrees	investigate and explain	3. Recognise that	3. Construct and interpret	lamp will light a simple	3. Find patterns between
	Celsius	changes to the state of	environments can change	a variety of food chains,	series circuit, based on	the pitch of a sound and
	3. Explore the effect of	water and linking it to the	and that this can sometimes	identifying procedures,	whether or not the lamp is	features of the object that
	temperature on substances and	water cycle.	pose dangers to living things.	predators and prey	part of a complete loop	produced it 4. Find patterns between
	their change of state	l	Con they		with a battery	
	0	Can they	Can they Explore variety of living things	Can they	4. Recognise that a switch opens and closes a circuit	the volume of a sound and the strength of the
	Can they	Understand the four main	and use guides or keys to	Identificand name that basis	and associate this with	vibrations that produced it
	Compare and group materials based on their states of matter.	key stages in the water	identify/ classify them?	Identify and name the basic	whether or not a lamp	5. Recognise that sounds
	i.e. liquid, solid or gas?	cycle: evaporation, condensation, precipitation	Raise and answer questions	parts of the human digestive system?	lights in a simple series	get fainter as the distance
	Explain what happens to	& run off?	based on their observations	Describe the function of the	circuit	from the sound source
	materials when they are heated	& run on:	of animals and what they	organs of the human	5. Recognise some	increases.
	or cooled?	Understand that all water	have researched and found?	digestive system?	common conductors and	mercuses.
	Measure temperature at which	moves continuously and is	Compare the classification of	Identify the simple function	insulators, and associate	Can they
	different materials change state?	recycled over and over	common plants and animals	of different types of human	metals with being good	Describe a range of sounds
	Set up simple fair tests to make	again?	to living things found in other	teeth?	conductors	and explain how they are
	comparison?		places? (under sea,	Compare the teeth of		made?
	Plan a fair tests and isolate	Make a model water cycle	prehistoric)?	herbivores and carnivores?	Can they	Compare sources of sound,
	variables and explain why it was	to observe the process in	Name and group a variety of	Explain what a simple food	Explain how electricity is	explain how the sounds
	fair and explain which variables	action?	living things based on feeding	chain shows?	useful to us?	differ and how to change a
	have been isolated?		patterns? (producer,	Record and present what	Construct a simple circuit?	sound: (louder/softer)?
	Suggest improvements and	Explain and write about the	consumer, predator, prey,	they have found using a	Explain what a conductor is	Describe and explain how a
	predictions?	water cycle?	herbivore, carnivore,	variety of ways, drawings	and test materials for	sound travels from a source
	Decide which information needs		omnivore)?	and scientific language?	conductivity?	to our ears?
	to be collected and best way to	Challenge: Can they			Explain closed and open	Explain what happens to
	collect it?		Challenge: Can they	Challenge: Can they	circuits?	sound as it travels away
	Use findings to draw a simple	Explain what happens over	Record more complex data	Compare the teeth of	Construct a circuit with a	from its source?
	conclusion?	time to materials such as	and results using scientific	carnivores and herbivores,	switch?	Explain how pitch and
		puddles on the playground	diagrams, classification keys,	and suggest reasons for	Recognise some common	volume can be changed in a
	Challenge: Can they	or washing hanging on a	tables, charts, graphs and	differences?	conductors and insulators?	variety of ways?
	Diam and a sum and an	line?	models?	Find out what damages	Plan, predict and carry out	Investigate how different materials can affect the
	Plan and carry out an	Set up a simple	Report findings from	teeth and how to look after	an experiment controlling variables fairly and	pitch and volume of
	investigation by controlling	experiment, predict and	investigations through written	them?	accurately?	sounds?
	variables fairly and accurately?	method of recording?	explanations and	Make a presentation to	Explain how a bulb might	Predict, plan, measure and
	Group and classify metarials	Relate temperature to	conclusions?	show what happens in your	get lighter?	record an investigation?
	Group and classify materials	change of state of materials, linking to the	CONTOURS :	body, the digestive system	Work out if all metals be	Explore which materials
	according to impact of temperature?	water cycle?	Use graph or diagram to	and keeping teeth healthy?	used to connect a circuit	give best insulation for
	temperatures	water cycle:	answer scientific questions?		gap?	sound? ( Challenge)
		l	anonor solontino questions:		9~⊾.	oodiid. ( oildiloiigo)

Year 5	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
	Living Things & their Habitats	Animals, including	Properties & changes to	Properties & changes to	Earth and Space (S)	Force (S)
	1. Describe the differences in the	Humans (S)	materials (S)	materials (S)	1. Describe the movement of	1.Explain that
	life cycle of a mammal, an	1. Describe the changes as	1. Compare and group	1. Know that some	the Earth, and other planets,	unsupported objects fall
	amphibian, an insect and a bird.	humans develop to old age	together everyday materials	materials will dissolve in	relative to the Sun in the Solar	towards the Earth
	2. Describe the life process of		on the basis of their	liquid to form a solution,	System.	because of the force of
	reproduction in some plants and	Can they	properties, including their	and describe how to	2. Describe the movement of	gravity acting between
	animals.	Compare data about	hardness, solubility,	recover a substance from	the Moon relative to the Earth	the Earth and the falling
	3. Talk with knowledge about	gestation periods of	transparency, conductivity	as solution.	3. Describe the Sun, Earth and	object
	birth, reproduction and death of	humans and other	(electrical and thermal), and	2. Use knowledge of solids,	Moon as approximately	2. Identify the effects
	familiar animals or plants?	animals?	response to magnets.	liquids and gases to decide	spherical bodies.	of air resistance, water
			2. Understand that materials	how mixtures might be	4. Use the idea of the Earth's	resistance and friction,
	Can they	Create a timeline to	are suitable for making a	separated, including	rotation to explain day and	that act between
	Describe and compare the life	indicate stages of growth in	particular object because of	filtering, sieving and	night and the apparent	moving surfaces.
	cycle of a range of animals,	humans?	their properties.	evaporation.	movement of the sun across	Recognise that some
	including humans, amphibians,		3. Understand that force is	3. Know that some	the sky.	mechanism, including
	insects and birds?	Explain why different	measured in Newtons and	materials will dissolve in		levers, pulleys and
		animals will have a	used for testing weight,	liquid to form a solution,	Can they	gears, allow a smaller
	Describe the life cycles of	different life expectancy?	strength and flexibility of	and describe how to	Identify and explain the	force to have a greater
	common plants?		materials	recover a substance from a	movement of the Earth relative	effect.
		Present findings through	4. Give reasons, based on	solution.	to the Sun?	
	Talk about birth, reproduction and	writing, display and	evidence from comparative	3. Demonstrate that	Explain how seasons and the	Can they
	death of animals and plants with	presentation?	and fair tests, for the	dissolving, mixing and	associated weather are	Explain what gravity is
	understanding?	Take measurements using	particular uses of everyday	changes of state are	created?	and its impact on our
	B C	a range of scientific	materials, including metals,	reversible changes.	Identify and explain the	lives?
	Report findings from	equipment with increasing	wood and plastic.	4. Explain that some	movement of the Moon relative	Explain why a wheeled
	investigations through written	accuracy?		changes results in the	to the Earth?	object that is initially
	explanations and conclusions?	Record more complex data	Can they	formation of new materials,	Explain the size, shape and position of the Earth, Sun and	pushed will slow down and stop?
	Use a graph to answer scientific questions?	and results using scientific	Work our which materials are	and that this kind of	Moon?	Explain the impact of
	Observe and compare the life	diagrams, charts, tables,	most effective for keeping	change is not usually	Explain how night and day are	friction and drag force
	cycles of plants and animals in	classification keys, graphs	warm or keeping cold?	reversible, including	created and use diagrams to	on moving objects?
	their local environment with	and models?	Carry out experiments to compare materials suitable	burning and chemical	show this?	Explain how force and
	plants and animals around the	Challenge: Can they	to make a switch in a circuit?	reaction.	Explain how planets are linked	motion can be
	world e.g. desert areas,	Create a timeline to	Report and present findings	Can they	to stars?	transferred through
	rainforests, oceans, prehistoric	indicate stages of growth of	from enquiries through	Explain how materials	to stars.	gears, pulleys, levers
	times)?	a baby, themselves, a	written explanations and	dissolve in liquid to form	Challenge: Can they	and spring?
	Ask pertinent questions and	teenager, young adults,	conclusions?	solution?	Create simple models of the	Make predictions, test
	suggest reasons for similarities	their parents or	00014310113	Use knowledge of liquid,	solar system.	an idea and record
	and differences?	grandparents and create a	Challenge: Can they	solid or gas to describe	Construct simple shadow clocks	using scientific
	Explain (in simple terms) a	chart to find out about what	Explain the work of chemists	methods of separating	and sundials, calibrated to	language?
	scientific idea and what evidence	they can and cannot do	who created new materials	mixtures- filtering, sieving,	show midday, start and end of	
	supports it?	over time?	e.g. Spencer Silver (glue on	evaporating?	school day.	Challenge: Can they
		Link what they have found	sticky notes) or Ruth Benerito	Explore changes that are	Begin to understand how older	Design parachutes and
	Challenge: Can they	out to other science?	(wrinkle free cotton)?	reversible and irreversible	civilizations used the Sun to	explain gravitational
	Explore the work of well know	Suggest how to improve	` '	e.g. burning, rusting,	create astronomical clocks and	force? Work out how
	naturalists and animal	their work and say why they		reactions such as vinegar	Stonehenge?	water can cause
	behaviourists? E.g. David	think this?		with bicarbonate of soda?	Explore the work of some	resistance to floating
	Attenborough and Jane Goodall.				scientists? Ptolemy, Copenicus	objects?

Year 6	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
	Living things and their	Animals, including Humans	Evolution & Inheritance	Electricity	Light & Shadow (S)	Light, Shadow & the
	Habitats	1. Identify and name the main	1. Recognise that living	1. Associate the brightness	1. Recognise that light	Eye (NS)
	1. Describe how living	parts of the human circulatory	things have changed over	of a lamp or the volume of	travels in straight lines and	Understand that:
	things are classified into	system, and describe the	time and that fossils provide	a buzzer with the number	travels faster than sound.	1. Brain and eyes work
	broad groups according to	functions of the heart, blood	information about living	and voltage of cells used in	2. Use the idea that light	together to give us our
	common observable	vessels and blood.	things that inhabited the	the circuit.	travels in straight lines to	sense of sight.
	characteristics and based	2. Recognise the impact of diet,	Earth millions of years ago	2. Compare and give	explain that objects are seen	2. Identify and describe
	on similarities and	exercise, drugs and lifestyle on	2. Recognise that living	reasons for variations in	because they give out or	the six parts of the human
	differences, including	the way their bodies function.	things produce offspring of	how components function,	reflect light into the eye	eye: cornea, pupil, iris,
	micro-organism, plants and	3. Describe the ways in which	the same kind, but normally	including the brightness of	3. Explain that we see things	lens, retina and optic
	animals.	nutrients and water are	offspring vary and are not	bulbs, the loudness of	because light travels from	nerve.
	2. Give reasons for	transported within animals,	identical to their parents.	buzzes and the on/off	light sources to our eyes or	3. Discuss how parts of
	classifying plants and	including humans.	3. Identify how animals and	position of switches.	from light sources to objects	the eye work together to
	animals on specific		plants are adapted to suit	3. Use recognised symbols	and then to our eyes	provide vision.
	characteristics.	Can they	their environment in different	when representing a simple	4. Use the idea that light	4. Explore the
		Identify and explain the function	ways and that adaptation	circuit in a diagram.	travels in straight lines to	relationship between light
	Can they	of the organs of the human	may lead to evolution.		explain why shadows have	sources, objects and
	Devise classification	circulatory system? (heart, blood		Can they	the same shape as the	shadows.
	systems and keys to	vessels, blood)?	Can they	Identify and name the basic	objects that cast them.	
	identify some animals and	N	Recognise that living things	parts of a simple electric	0 45	Can they
	plants in the immediate	Name the major organs in the	have evolved overtime?	series circuit? (cells, wires,	Can they	Identify all the six parts of
	environment.	human body?	Recognise that offspring are not identical to each other	bulbs, switches, buzzers, motors)?	Explain how light travels? Explain how the human eye	the eye and their
	Describe and compare the	Locate the major human organs	and their parents?	Explain how to make and	sees objects?	functions.
	life cycles of a range of	and their functions?	Give reasons why offspring	impact of changes in a	Explain how different colours	Use information from
	animals, including humans,	and their functions?	are not identical to each	circuit?	of light can be created?	different sources to
	amphibians, insects and birds?	Compare the organ systems of	other or to their parents?	Explain the effect of	Use and explain how simple	answer questions, plan an
	Discover the special	humans to other animals?	Explain the process of	changing the voltage of a	optical instruments work?	investigation? Explain how the brain and
	attributes that some	numans to other animals.	evolution and describe the	battery?	( periscope, telescope,	eye works together?
	animals and plants have to	Make a diagram of the human	evidence for this?	Explain the danger of short	binoculars, mirror,	Draw diagram that
	help them survive?	body and explain how different	Identify how animals and	circuits?	magnifying glass, Newton's	outlines the eye?
	Explain why might some	parts work and depend on one	plants are adapted to suit	Explain what a fuse is?	first reflecting telescope)	Explain what happens to
	animals and plants be	another?	their environment in different		Explain changes linked to	the size of a shadow when
	endangered and carry out a		ways and that adaptation	Challenge: Can they	light (and sound)?	you move the object?
	research of one animal or	Challenge: Can they	may lead to evolution?	Systematically identifying	Make a prediction which links	Which materials are the
	plant?	Explore the work of medical	Talk about the work of	the effect of changing one	with other scientific	best for reflecting light?
	Explain what are micro-	pioneers, e.g. William Harvey and	Charles Darwin, Mary Anning	component at a time in a	knowledge?	
	organisms and how they	Galen, and recognise how much	and Alfred Wallace?	circuit.	Identify factors when	Challenge: Can they
	would be classified?	we have learnt about our bodies?		Design and make a set of	planning a fair test, record	Explore a range of
	Record more complex data		Challenge: Can they	traffic lights, a burglar	and present findings?	phenomena, including
	and results using scientific	Explore the work of scientists and	Explain how some living	alarm or some other useful	Use ray model to explain the	rainbows, colours on soap
	diagrams, classification	scientific research about the	things adapt to survive in	circuit?	size of shadows?	bubbles, objects looking
	keys, labels, graphs and	relationship between diet,	extreme conditions?	Explore different ways to		bent in water and
	tables?	exercise, drugs, lifestyles and	Analyse the advantages and	test an idea and choose the	Challenge: Can they	coloured filters?
	Use information from	health.	disadvantages of specific	best way, and give	Design and make a periscope	Present findings through
	different sources to answer	Report their research and findings	adaptations, e.g. being on	reasons?	and using the idea that light	writing, display and
	questions and record.	through written, explanations,	two rather than four feet?	Create and present their	travels in straight lines to	presentation?
		conclusions and presentations?	Understand what is DNA?	electrical products.	explain how it works.	
	<u> </u>	concidencia and presentations:	Chacistana what is DNA:	cicotilodi products.	CAPIGITION IL WORKS.	

<b>SCIENCE CURRICULUM MAP</b> : Working scientifically must <b>always</b> be taught through and clearly related to the teaching of substantive scientint in the programme of study (statutory (S) and non-statutory (NS))	ence