			Plants -	Botany			
	Informal Pathway	Semi-	Formal Path	iway	Formal 1	Pathway	F
	P-Levels 1-3 0-11 Months Developmental Stage	P-Levels 4-5 8-20 Months16-26 Months	P-Levels 5-6 22-36 Months FS1	P-Levels 6-8 FS2 ELG's	NC Year 1	NC Year 2 End of K\$1	NC Yeo
END POINTS	By the end of the Informal Pathway Pupil's should be able to; • show confidence to explore materials/plants and objects around them, • Notice changes in the immediate environment. • Summary statement taken trom Development Matters Stage 1	By the end of the Semi Forr • explore the natural drawing pictures of • know and describe differences and sim • show understanding • add contributions of Taken from Early Learning of	mal Pathway Pupil's should world around them, maki f plants, changes in the plants aro hilarities, g of changes in the enviro about what they have lead Goals – end of Foundation	<b>1 be able to;</b> Ing observations and bund them by noticing anment, and ask questions. <b>2 expectations</b> .	By the end of Formal 1 be able to; explore and co between things and things that describe habito describe how e for certain plan with animals, identify and na wild and garde deciduous and identify and de structure of a ve flowering plants observe and de bulbs grow into find out and de to grow and sto observe chang observe chang observe and de associated with day length vari	Pathway Pupils should ompare the differences is that are living, dead thave never been alive, ats and food chains, each habitat is specific the avariety of common en plants, including l evergreen trees escribe the basic ariety of common s, including trees. escribe how seeds and o plants, escribe what plants need ay healthy, tes across the 4 seasons, escribe weather in the seasons and how ies. urriculum End of key (Plants, Seasonal ings and their habitats)	By the to; • • • • • • • • • • • • • • • • • • •
l can	show an interest in objects including plants and explore them using senses.	Explores plants <mark>and their</mark> textures by handling.	Explores plants independently, paying attention to cause and offect.	communicate about some of the things they have observed in plants, such as growth, decay and changes over time.	identify common garden or wild plants/flowers trees.	Identify various fruit and recognise Seeds.	Recogn garden
	engage with objects using senses and repeat an action that has an effect.	Observe <mark>changes in</mark> plants (leaves and trees moving in the wind.	notice some features and changes in plants.	Beginning to develop an understanding of growth, decay and changes over time.	explain the changes that happen with plants, <mark>including the</mark>	To know the difference between things that are living, dead, and things	



watches closely as an adult explore the object	Explores a variety of different textures on plants.	Begins to notice changes in plants.	Demonstrate an understanding of the natural world e.g. leaves	life cycle, leaves changing. Can use pictures to explain the life cycle of a plant.	that have never been alive, using some of the life processes. o begin to understand some of the life processes, including movement, reproduction, sensitivity, growth, excretion and nutrition. Share observations of the plant growth.	Explain how plants grow using key words e.g. photosynthesis, oxygen,	Observe, record and comment on germination of various
reach out for an object with a purpose. touche and begins to hold objects firmly.	plant a seed/plant and show awareness of how to look after plants e.g watering, re-planting and digging.	Notices detailed features of plants.	Demonstrate an understanding of key concepts e.g. wet/dry and cold and hot.	check a plant and decide if it needs watering.	Observe changes in decay e.g. making compost	Notice similarities and differences between looking after seeds/bulbs and plants.	Explain the ways of seed dispersal.
show when I am hungry using sounds, facial expressions or my body.	Imitates and improvises actions they have observed e.g. watering the plants.	Demonstrate of how to look after plants; watering and using garden tools with help. Is able to water plants with care.	show care and concern for plants and the environment.	identify the signs of <del>summer and winter</del> the 4 seasons.	Identify the requirements of plants for growth while looking after them.	Identify the basic structure of a variety of common flowering plants.	Name and locate the main parts of plants, describe their functions, including those involved in reproduction.
notice changes in number of objects / changes in quantity.	Begins to know the use of some objects e.g. spade for digging.	Handles gardening tools with adult support.	ask questions about plants.	name the differences between plants and animals.	Describe differences and similarities between the 4 seasons.	Explain what happens to plants during the different seasons and how environmental changes impact on plants.	Recognise deciduous and evergreen trees around them.
Expresses hunger - voca sounds, facial expressions, change in behaviour.	watch a toy being hidden and try to find it and look for dropped objects.	Know the plants uses and is aware of a sequence of actions (e.g. wash, chop and then eat) in role play uses plants/vegetables and knows the sequence in which to use them e.g. chop then eat.	Looks closely at investigate similarities, differences, patterns and change.	Describe plants describe plants (including leaves, flowers (blossom), petals, fruit, roots, bulb, seed, trunk, branches, stem) of a variety of common plants, including flowering plants and trees.	Describe when parts of the plants are eaten as food. Design his/her own tea using herbs. know that a habitat is the environment where an animal or plant lives/ grows, because it provides what they need to survive.	Research other uses of plants.	Prepare a plant project and share the findings with others.
	know that plants can be used in different ways; e.g. eating, chopping, cooking and grating.	sort plants by one category.	Show some understanding of dangers in DT Room e.g. sharp objects, hot hobs.	Name the main external parts of flowering plants.	Name different environments where plants grow name and describe a variety of habitats, including woodland, ocean, rainforest and seashore.	Locate and describe the roots and how they transport water and nutrients.	Use the observable features of plants to classify, group and identify them.

		try a range of food with	move around the		Identify what plants	Explain how water	Explain
		different consistency and	school to the DT Room.		need to make their	moves through a plant	omnivo
		texture.? and begin to			own food.?	from roots to stem.	and ca
		show food preferences.					relatio
							interac
						Eveloin er chevy e	Chaura
			Room and disper hall			Explain or show a	Show a
			Room and ainner hall.			simple food chain.	and un
							change
							affect e
					Describe		
ECO S	Schools Link: Biodiversity a	nd School Grounds					
	-Nature conservation						
	-Eco garden and Pollination						
	-Deforestation and Saving Tr	opical Forests.					
	-Research and trial of other	materials used to replace furni	ture				
	-PHS Compaign for School G	ardening	ture.				
	-Countryside Classroom Wo	odland Trust					
1		We plant	Look after the eco-garden	Getting involved in	Pollination and bees	Design an eco-garden	Defore
, con		we plane	Look after the eco-garden	noture concernation	ronnation and bees	Design an eco-garden	Bosoar
Call							Resear
							materi
							replace
						To know that seeds and	
						bulbs grow into	
						seedlings by producing	
						roots and shoots. To	
						know that seedlings	
						grow into mature plants	
						by developing parts	
						that may include	
						stoms/trunks_loovos	
						flowers and fruits. To	
						nowers and truits. To	
						know that seeds need	
						water to germinate. To	
						know that plants need	
						water, light and a	
						suitable temperature	
						for growth and health.	
						, and the second s	
			Materials Engin	neering & Chemistry			
G	rouping, classifying, knowin	g about the properties and t	the changes that can happ	en, know the materials o	bjects are made from, ch	oose a suitable material	for an ol
WHY	Explorers: The confidence	to explore new textures not	tice differences and	Independent Learners:	The knowledge to recyc	le in their own home.	Caree
	changes and learn how to	maninulate materials		make crafts as a hobby	uncycle objects to use	tools nurnosofully ack	design
	changes and rearrinow to	manipulate materials.		auesticas	, apeyere objects, to use		ucsign
				questions wa			

n and understand	
ores, herbivores	
arnivores and their	
analytics and their	
ations	
ctions.	
a simple food web	
nderstand how	
es in a food chain	
each other.	
octation	Cove the woods and
estation -	Save the woods and
rch on other	tropical forests
ials used to	
e wood.	
	inking Documents
L	
bject.	DT - Materials
r Seekers. The ski	lls to become clothing
Jeeners. The SKI	
ners, builders, clea	iners, engineers, eco

	Informal Pathway	Semi-Formal Pathway			Formal 1 Pathway		Formal 2 Pathway	
	P-Levels 1-3 0-11 Months Developmental Stage	P-Levels 4-5 8-20 Months16-26 Months	P-Levels 5-6 22-36 Months FS1	P-Levels 6-8 FS2 ELG's	NC Year 1	NC Year 2 End of KS1	NC Year 3&4	Year 5&6 End of KS2
	By the end of the Informal Pathway Pupil's should be able to; • explore objects in close proximity using senses, • notice if an object has been removed Summary statement taken from Development Matters Stage 1	By the end of the Semi Ford • explore the natural feeling materials, • know some similarity materials • show understanding changing states of Taken from Early Learning of ()	nal Pathway Pupil's should world around them, makin ies and differences betwe g of changes when using r matter. Goals – end of Foundation	I be able to; ng observations and en the every day materials, including 2 expectations.	By the end of Formal 1 F be able to: • distinguish betwo material from wh • describe the sim of everyday ma • organise materia their physical pro • identify and nam (wood, plastic, g rock, paper and • compare and id particular uses • conduct tests ho objects (example bending, twisting Taken from National key stage 1 Expon materials and Us materials)	Pathway Pupils should een an object and the hich is made, ple physical properties terials, als into groups based on operties, ne a variety of materials glass, metal, water, i cardboard), lentify materials for ow to change solid by squashing, g and stretching, onal Curriculum End of ectations. (Everyday se of everyday	By the end of Formal Parto; • observe the char heated or coole compare and g materials on the (hardness, solub conductivity, an magnets), • identify evapora in the water cycl know that some and form a solut to recover a sub use knowledge gases to decide separated (filter evaporating), • give reasons bas the particular us • demonstrate that changes of state changes, • explain that som formation on ne the change is no compare and g kinds of rocks on appearance an properties • describe in simp formed when that trapped within re recognise that so rocks and organ	thway 2 should be able inges of materials when d, roup everyday basis of their properties lity, transparency, d response to tion and condensation le and their roles, materials will dissolve ion and describe how stance from a solution, of solids, liquids and how mixtures might be ing, sieving and sed on evidence, for es of material at dissolving, mixing and e are reversible the basis of their d simple physical le terms how fossils are ings that have lived are bock oils are made from ic matter. riculum End of Key roup together and changes
l can	Look at and reach out for familiar objects	Notices changes in tactile materials e.g. lingers on preferred textures, with draws from non-preferred.	Observe what happens next when exploring.	Can communicate about the objects/ materials they have observed/found.	Find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching.	Compare everyday materials according to their properties.	Can make simple predictions about the outcomes of an experiment.	Identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper

							and cardboard for
Look at and reaches out for new objects.	Remove and replace objects in a container.	Explores objects by linking different approaches and remembering previous actions.	Communicate about how and why something has happened.	Name parts of the environment that have been damaged by waste disposal.	Identify 4 household and school materials which can be recycled.	Identify why materials have been chosen for their purpose.	Justify the use of every day materials based on their properties.
React and respond to repeated patterns (lights, movement etc.)	Begin to notice some similarities and differences.	Match object to picture by colour.	Demonstrate understanding of key concepts e.g. rough/ smooth	Show understanding of key concepts of the similarities and differences e.g. waterproof / not waterproof.	Compare and group together objects according to their properties.	Describe physical properties of given materials and classify them into 4 groups.	Distinguish between an object and material from which it was made.
Explore objects of interest.	Know the use of some familiar objects (e.g. push toy car).	Solve simple problems – empty a bucket to put objects in.	Develop an understanding about changes.	Identify and name variety of materials (glass, plastic, metal, paper, wood etc.) and begin to know their basic properties e.g. smooth, hard	Identify 4 most common hazard symbols, what they mean and how to use them safely.	Experiment with less common materials: foil, fabrics, elastic etc.	Design, carry out and record experiments testing materials.
Can tolerate adult interaction when exploring objects.	Explore new and different materials with adult support.	Is able to change materials e.g. by adding water.	Look closely at similarities and differences.	Compare objects by their features.	Name 4 natural and man-made materials.	Understand the need to use natural materials sustainably.	Comparing the uses of everyday materials in and around the school with materials found in other places.
Explores objects by looking, touching and mouthing.	Begin to group and organise.	Beginning to categorise objects according to property e.g. size, colour.	Comments and asks questions about aspects of materials they are familiar with.	Use various equipment to weigh and measure materials / objects.	Record the results using standard and nonstandard units.	Identify and explain whether changes in materials are reversible or not.	identifying and classifying the uses of different materials, and recording their observations
Reacts with abrupt change when a face or object suddenly appears or disappears from view.	Notices changes in temperature, sound or light.	Can use words, signs or symbol to describe a materials e.g. bumpy.	Is beginning to be interested in and describe the texture of things.	Distinguish between the object and the material it is made from.	Identify methods used to dispose of waste.	Describe how materials change state at different temperatures.	Record findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and table
Repeats an action that has an effect.	Explore objects intentionally, by investigating cause and effect.	Is beginning to use more complex actions e.g. twisting, tearing, folding, turning materials.	Understands that different materials and media can be combined to create new effects.	Describe the simple physical properties of a variety of everyday materials.	Explain how materials are changed by heating and cooling.	Identify and describe dissolving and separating mixtures and solutions.	Identify reversible and non-reversible changes.
			Compares two groups of objects	Name some materials which can be recycled.	Describe their observations using scientific vocabulary.	Record results, create data table and label diagrams or drawings.	Understand and explain solids, liquids and gases.
			Handles tools and materials safely with increasing control.	Name some familiar reactions when liquids/materials are combined e.g. heat + chocolate = melting chocolate.			
Schools Link: Waste and Lit	ter						
-(Re)Love our Statt project:	swapping/giving away/selling	old school tops and jumpers					

-	-	-	
		2	•
-	-	-	-

WHY	-Upcycling clothes and a fash -Upcycling/redecorating furr -Junk models/crafts -TerraCycle (recycling no-rec -Local Authority Waste Servi -Reducing Domestic Waste -Making and building with Ee -Making and building with Ee -Litter picking Know the names of different different Explorers: The confidence about the animals we explored	nion show niture and giving away/sel cyclable products); joining ces? co-bricks <i>animals, Know the basi</i> <i>animals, know about th</i> to tune in to the sounds erience & recognise fam	lling. TerraCycle program and ea Animals - Veterina ic needs an animal needs be food and food chains o s around us, develop curio niliar animals.	arning points for the schoo <b>ry Science &amp; Mari</b> to survive, changes whic f different animals and to posity Independent Lea animals, how to	ol <b>ine Biology</b> ch happen in different anin cheir habitats and why they arners: The knowledge to k recognise different types a	nals as they grow and change v are suited to them. know how to care for and know about animals	, compar Career wild lif
	Informal Pathway	Sen	ni-Formal Po	around the world	d, look after their own pet. Forma	l 1 Pathway	F
#	P-Levels 1-3 0-11 Months Developmental Stage By the end of the Informal Pathway Pupil's should be able to: • show awareness of animals in their environment by smiling, touching or looking, • respond to animal sounds. Summary statement taken from Development Matters Stage 1	P-Levels 4-5 8-20 Months 16-26 Months By the end of the Semi explore the na drawing pictur know and dese by noticing dif show understa make commen Taken from Early Learr	P-Levels 5-6 22-36 Months FS1 i Formal Pathway Pupil's s itural world around them, res of animals, cribe processes, changes ferences and similarities, inding of changes in the o nts and ask questions to control hing Goals – end of Found	P-Levels 6-8 FS2 ELG's should be able to; making observations ar in the animals around t environment, clarify their understandin dation 2 expectations.	nd hem g. g. NC Year 1 By the end of Form be able to: • explore an between t and things • describe h for certain depend or • identify, nd animal gra reptiles, bir • explain wh omnivores • know life co • research a of animals air). Taken from Nation stage 1 Expectation	NC Year 2 End of KS1 nal 1 Pathway Pupils should ad compare the differences hings that are living, dead that have never been alive, abitats and food chains, ow each habitat is specific animals and how they n each other and on plants, ame and describe common bups (fish, amphibians, rds and mammals), at carnivores, herbivores and are, cycles of animals, and describe the basic needs for survival (water, food and and Curriculum End of key ons (Animals, including of things and their habitats)	NC Ye



							<ul> <li>recognise that linchanged over the provide information that inhabited the ago,</li> <li>identify how ani adapted to suit different ways a may lead to ever the ago and the ago are and the ago.</li> </ul>	ving things have me and that fossils tion about living things he Earth millions of years mals and plants are their environment in nd that adaptation blution. rriculum End of Key nimals, including inheritance, and Living
Ι	Move eyes and then head	Closely observes what	Notices detailed features	Comments on aspects	Explore living and non-	Identify differences	Make observations and	Explain adaptation,
can	to follow a moving animal.	animals do.	about animals.	of the natural world.	living	between living and non- living.	with some degree of detail make measurements using appropriate apparatus.	variation and evolution.
	Smiles at recognisable pets/animals.	Is able to recognise familiar places related to animals e.g. the farm.	Is developing an understanding of simple concepts e.g. big/little.	Demonstrates an understanding of the changes over time in the natural world e.g. animals have babies.	Explain what animals need to live.	Identify forest/water habitats and match the animals living in them.	Identify and name animals in a given habitat.	Describe how animals are found and survive in different habitats.
	Repeats an action that has an effect.	Remembers that some actions are important e.g. stroking an animal gently.	Copies adults actions using small world animals.	Shows care and concern for living things.	Recognise the main body parts across various animals.	Describe functions of the main body parts.	Explain what more specific body parts are for.	Describe and compare the reproductive and life cycles of different animals.
	Tracks animals as they move and make a sound.	Recognises familiar songs about animals.	Enjoys playing with small world animals.	Notices what adults do, imitates what has been observed then does it spontaneously when adult is not there.	Identify common animals that are carnivores, herbivores and omnivores.	Describe what animals need to survive.	Construct a food chain.	Explain the classification groups of animals and group them.
	Responds to what the familiar adult is paying attention to e.g. following their gaze.	Begins to know / recognise the names of familiar animals.	Pretends that one object represents another e.g. stuffed toy.	Asks questions about the natural world.	Identify whether things are alive, dead or have never lived.	Observe and compare different animals.	Explain how environmental changes have an impact on living things.	Identify most animals.
	Looks at books and pictures about animals.	Can copy others – actions, noises, facial expressions	Responds to a few boundaries in relation to animals and the farm.	Looks closely at similarities, differences, patterns and change.	Describe a living thing.	Describe their observations using scientific vocabulary.	Explain how fossils are formed.	Explain predator / prey relationships.
	Reaches out for and touches animals.	Accepts interaction with a familiar adult e.g. stroking an animal.	Demonstrates use and function of a familiar object e.g. feed bucket, animal food.	Follows an instruction with 3 key words for caring for animals on the farm.	Group animals according to what they eat.	Can suggest a simple experiment involving plants and suggest how to collect data.	Can make simple predictions about the outcomes of an experiment.	
	Tries to locate a familiar animal sound.	Responds to the familiar sound of an animal	Identifies the correct animal by sound e.g. can select 'dog' when an adult says 'woof'.	Asks questions about animals using signs or question word symbols.	Identify common animals including fish, amphibians, reptiles, birds and mammals.	Describe and compare the structure of a variety of common animals.	Carry out fair testing and make observations about their results.	
	Responds to hands being washed.	Accepts hand washing as a part of the farm routine.	Attempts to wash hands without adult support.	Rubs hands with soap and puts under the water to rinse			Record results, create data table and label diagrams or drawings.	

ECO S	chools Link: Biodiversity a	and Marine							
	-looking after school animals	;							
	-BLUE Campaign (allocating a	a small area for a wild garden a	and studying animals and inse	ects living there)					
	-Become Plastic Clever! Char	ity	, 0	0 /					
	-Marine Stewardship Council								
	-WWF'S adopt a marine anim	nal						dites Base and the	
			Our Bodies – Bio	ology & Anatomy			, , LI	Notor Skills	
Na	mes and locate parts of the	body, know about and expe	eriences different senses, k humans need to survive an	nows the importance of and how we grow into adu	exercise, balanced diet an lts.	id hygiene for humans, kr	nows what	RHE	
WHY	<b>Explorers:</b> The confidence	to recognise parts of their b	odies, learn what their	Independent Learners:	The knowledge to look a	fter themselves,	<b>Career Seekers:</b> The skills to become a nurse,		
	boales can ao ana begin to	o understand what their bod	les are teiling them.	diat and exercise and u	sonai nygiene, know now nderstand their hodies	care worker, aletician,	care worker, dietician, play worker and a		
		•		alet and exercise and understand their bodies.				D. II.	
	Informal	Semi-	Formal Path	way   Formal I Pathway			Formal 2	Pathway	
	Pathway								
	i uniway								
	P-Levels 1-3	P-Levels 4-5	P-Levels 5-6	P-Levels 6-8	NC Year 1	NC Year 2	NC Year 3&4	Year 5&6	
	0-11 Months	8-20 Months16-26 Months	22-36 Months	FS2		End of KS1		End of KS2	
	Developmental stage		F\$1	ELG'S					
	By the end of the	By the end of Semi-Formal	Pathway Pupils should be	able to;	By the end of Formal 1 F	athway Pupils should	By the end of Formal Po	thway 2 should be able	
	Informal Pathway Pupil's	<ul> <li>explore the natural wo</li> </ul>	rld around them, making o	bservations and	be able to;		to;		
	<ul> <li>Show awareness</li> </ul>	<ul> <li>know and describe pro</li> </ul>	cesses, changes ground t	• numary life cycle, hem by noticing • identify, name and label the basic			<ul> <li>explain why humans need humion and where can it be found,</li> </ul>		
	of cause and	differences and similar	ities,		body parts		<ul> <li>know the types</li> </ul>	of teeth and their	
	effect with their	<ul> <li>show understanding of make commonts and</li> </ul>	changes in the environme	ent,	match body part     research and de	rts to senses	functions,	ations of digastiva	
	<ul> <li>use body to</li> </ul>		ask questions to clarity their	r undersidhding.	of humans for su	rvival (water, food and	system,		
	communicate	Taken from Early Learning	Goals – end of Foundation	2 expectations.	air).		<ul> <li>identify that humans have skeletons</li> </ul>		
	Summany statement taken				<ul> <li>describe the important of t</li></ul>	portance for humans of	and muscles for	support, protection	
	from Development Matters				food.	e and earing nearing	<ul> <li>recognise that I</li> </ul>	ving things produce	
	Stage 1						offspring of the	same kind, but normally	
					Taken from National Cu	rriculum End of key	offspring vary al	nd are not identical to	
					humans)	minus, inclouing	Taken from National Cu	rriculum End of Key	
							Stage 2 Expectations(A	nimals, including	
	Reaches out for touches	Tolerates / participates in	Washes hands with adult	Observes the effects of	Can talk about the	Describe the	Name the main	Explain a balanced diet	
can	and begins to hold objects.	hygiene routines.	support.	activity on their bodies.	changes over time from	importance of exercise	muscles, where they are	and the need for it.	
	Ŭ,	10		,	babies to adults, by	and hygiene for humans	and know exercises to		
					looking at photographs.		strengthen them.		
	To explore sensory or	Enjoys finding own nose,	Points to more complex	Accurately point to/	Can name and locate	Describe the basic	Describe the physical	To describe the life	
	objects of interest.	a naming game	body parts	of the human body	body including those	the changes as they	during puberty	including reproduction	
				er the namun body.	related to senses.	grow to an adult.			
	Expresses discomfort,	Notices changes in		Can talk about some of	Draw and label the basic	Begin to understand	Know and name 4 of the	Describe the main	
	hunger or thirst.	temperature.		the things they have	parts of the human	some of the tests and	major organs in the	functions of the organs	
				observed.	body.		body and their function.		

Anticipates food routines.	Is able to make sounds using the body.	Holds cup and drinks without spilling.	Looks closely at similarities, patterns and change.	Ask simple questions about their body.	symptoms when someone is ill. Describe their observations using scientific vocabulary.	Identify the main nutrient groups, their simple function and what makes balance diet.	in the body and where the organs are found. Explain about some microorganisms and that they can be useful or harmful and how they affect the body.
Moves eyes and head to follow a moving object.	Closely observes what people do.	Recognises familiar songs and copies actions from an adult.	Initiates new combinations of movements to respond to a feeling or experience.	Look closely at our bodies and collect information about eye and hair colour, foot size etc.	Begin to name the medicines used to treat some illnesses.	Record results, create data table and label diagrams or drawings.	Explain the importance of hygiene and what measure we can take too protect the body.
Repeats actions that have an effect e.g. kicking/pushing/ throwing and object.	Shows awareness of cause and effect.	Is able to push and pull objects.	Name 5 senses.	Use their senses to explore texture, noise, smell etc and comment on what they have experienced.	Identify cell types in the body.	Can make simple predictions about the outcomes of an experiment.	Explain the impact of drugs/familiar medications and misuse of drugs on the body.
Is able to make their feelings known using their body.	Tries a range of food consistency and texture.	Is willing to try new foods.	Some understanding that good exercise, sleeping, eating and hygiene contribute to good health.	Explore different foods using different senses and classify into groups.	Describe the importance of a balanced diet for humans.	Name and describe the main parts of the digestive system.	Explain the similarities of the organs that both humans and animals share.
Gazes at faces and copies facial movements.	Gazes at mirror image of self and recognises self.	Copies actions of other children.	Sequence a life cycle of a human with at least three pictures.	Understand how the human body reproduces and name the external parts of the reproductive system	Understand how the human body reproduces with knowledge of the internal reproductive features.	Describe the menstrual cycle and pregnancy.	
Use face and body to react spontaneously to lights and patterns	Imitates and improvises actions they have observed. E.g. clapping	Understands the sequence of clothes when helping to dress.	Name some of the bones in the human body.	Understand what is important in maintaining a healthy body.	Understand how to maintain a healthy body and identify things that have an impact on health.	Describe lifestyle and environmental factors which affect health and their effect on the body.	
	Is able to explore different ways of moving.			Understand what happens when you become ill.		Explain the role of the skeleton and recognise the main bones in the body.	

### ECO Schools Link: Water, Healthy Living and Global Citizenship

Mindfulness Minutes National Call to Action

-Big Soup Share/ Meat Free Tuesday/ Bake off with vegetables

-Toilet Twinning <a href="https://www.toilettwinning.org/group/schools/">https://www.toilettwinning.org/group/schools/</a>

-Water Aid and Yorkshire Water

-Send a Cow (a program that trains rural African communities to help them to grow plants and earn money)

-UN Sustainable Development Goals

-Fair Trade School, Fairtrade Fortnight

2020
2020
2020

			- Dhueise			
		Horce Movement, Sound vibrations, magnet	s - Physics ic forces, gravity, pushes	& pulls, electronics		
WHY	<b>Explorers:</b> The confidence move and gain enjoyment	to explore objects, show curiosity in the way things from playing with technological toys.	<b>Independent Learners:</b> The knowledge to recognise changes and know why they have happened, know how the items at home work and how to use and repair them, be interested in the stars and beyond the world.			
	Informal Semi-Formal Path Pathway		hway	Formal 1 Pathway		
	P-Levels 1-3 0-11 Months Developmental Stage	P-Levels 4-5 8-20 Months16-26 Months FS1	P-Levels 6-8 FS2 ELG's	NC Year 1	NC Year 2 End of KS1	NC Ye
End Points	By the end of the Informal Pathway Pupil's should be able to; • show awareness of cause and effect when using objects and their own bodies. Summary statement taken from Development Matters Stage 1	<ul> <li>By the end of the Semi Formal Pathway Pupil's show</li> <li>explore the natural world around them, making drawing pictures of themselves,</li> <li>know and describe processes, changes around differences and similarities,</li> <li>show understanding of changes in the environm</li> <li>make comments and ask questions to clarify the Taken from Early Learning Goals – end of Foundation</li> </ul>	Id be able to; g observations and d them by noticing ment, heir understanding on 2 expectations.	By the end of Form         be able to;         • observe ch         seasons         • observe ch         associated         day length         Taken from Nation         stage 1 Expectation	hal 1 Pathway Pupils should manges across the four and describe weather with the seasons and how avaries. ad Curriculum End of key ons. (Seasonal changes)	By the to;



l can	Repeats an action that has an effect.	Remembers that some actions are important and exciting e.g. tipping balls from a basket.	Explores objects by linking together different approaches	Looks closely at similarities, differences, patterns or change.	Understand that light travels in straight lines and that some objects reflect, some create light, others let light through.	Describe their observations using scientific vocabulary.	Make an electric circuit and make changes to it to alter the light, sound etc	Can design and create a variety of different electrical circuits.
	Reaches out for, touches and begins to hold objects.	Pushes a ball to an adult. Pushes tower of bricks over. Pulls a toy on a sting.	Is able to push and pull objects.	Demonstrates an understanding of key concepts such as push/pull.	Explore a variety of magnets and objects, observing what happens,	Understand that forces are pushes and pulls, which can move things, change and stop.	Describe magnetic forces.	Explain magnetism, magnetic force and repel.
	Tolerate exploration of an object with a familiar adult.	Refuses objects by pushing them away.	Pushes cars and trains along the floor. Manipulates magnetic letters.	Shows skill in making toys work by pressing parts or lifting flaps to achieve an effect.	Group and sort objects which can be pushed/pulled.	Know how to use electrical equipment safely.	Explain why using electricity is hazardous and how to stay safe.	Draw a circuit using symbols.
	Tolerates passive touch.	Tolerates and interacts with others e.g. enjoying a hand or foot massage	Can request for 'more' by pushing an object to an adult.		Explain 2 electrical appliances at home.	Recognise that electrical appliances use different amounts of electricity.	Describe the advantages of using renewable energy.	Describe forces that involve contact e.g. air and water resistance.
	Show an awareness of my own hands.	Is able to press a switch repeatedly to show an awareness of cause and effect.	Operates mechanical toys e.g. turning the knob on a wind up toy or pull back a friction car.	Shows an interest in technological toys, with knobs pulleys.	Name types of fossil fuels and two types of renewable energy.	Make a simple circuit.	Begin to understand about friction.	Identify simple mechanisms e.g. gears, levers and pulleys that increase the effect of a force.
	Explores objects of varying sizes, weights and shapes, using a range of senses.	Intentionally explores objects with hands e.g. banging, dropping, squeezing. Look for dropped objects.	Initiates the exploration of technology e.g. reaching for a bubble tube, activating a sound beam etc.	Talks about why things happen and why things work.	Name some sound and light sources.	Knows how to change batteries in familiar objects and toys.	Explain cause and effect of physical phenomena e.g. the amount of electrical energy a device transfers depends on its power and how long it's switched on for.	Explain Gravity in simple terms.
	Can use face or body to react to light patterns e.g. on/off.	Anticipates repeated sounds, sights or action.	Listen to music and watches lights and responds when it is turned off.	Describe recent events in sequence related to lights.	Explore shadows and how they change.	Experiments with creating shadows using different light sources.	Explain how shadows are formed. Discover how light travels and that light is made up of a spectrum of colour.	Explain that light travels in straight lines how it then enters our eyes.
	Can experience activities and resources e.g. lights, sounds or vibration.	Shows an interest in a toy with buttons, flaps or simple mechanism and engages for upto 3 mins.	Understands what objects are used for.	Uses objects and resources purposefully.	Show awareness of switches and what they are used for.	Explain how we get electricity from fossil and renewable sources.	Understand that we need light to see in the dark and some colours light up better. Discover reflective objects.	Explain light, where it comes from, how it travels and enters our eyes.
	Can track sounds by moving head.	Notices changes in temperature, sound or light.	Recognises and responds to many familiar sounds.	Shows awareness of the differences between loud and quiet sounds.	Knows and can explain similarities and differences in sounds.	Know that sound waves are made from an object vibrating and that they have different volumes and pitch.	Described how sounds vibrate and what can change those vibrations	Describe how sound is made and how to alter the loudness of a sound.
	Shows reflex to sudden sound.	Holds an object in each hand and bangs them together in the middle.	Creates sounds by banging, shaking, tapping or blowing.	Explores and learns how sounds can be changed.			Explain how sounds are made and heard and that sounds that are too	

							loud can damage		
							hearing.		
	Is able to react to a variety	Becomes absorbed	Is beginning to	Questions why things	Observe and describe	Knows where rain, hail	Can make simple		
	of weights, volumes,	combining two objects.	understand that some	happen.	the weather.	and snow	predictions about the		
	speeds.		things can be dangerous.				outcomes of an		
							experiment.		
	Can tolerate interacting	Enjoys filling and emptying	Shows control in holding	Can order up to 3	Collect information	Knows what happens to	Explain the water cycle.	Use the terms	
	with an adult to play e.g.	containers.	and using objects –	objects by capacity and	about the weather,	water in different states		condensation and	
	filling and emptying, fibre		hammer, jugs etc.	can recognise, full,	collect data about	– vapour, freeze and		evaporation when	
	optic lights or massagers.			empty and half full.	rainfall and wind.	evaporate.		describing the water	
								cycle.	
	Explores objects, by	Throws toys or objects	Throws in an intended	Notices differences	Begin to know about	Identify the key parts of	Describe the solar	Describe the shapes and	
	IOOKING, TOUCHING and	deliberately.	direction.	when different objects	the sun, earth, moon	the solar system and	system	movements of the	
	moutning.	Leolo for dronged objects		are dropped – balls	and some other planets.	begin to explain gravity.		plants in our solar	
		Looks for dropped objects.		bounce, reatners noat				system and now the sun	
								the chy	
Eco Se	hools Link: Energy Transport							the sky.	
	Thinkl and Road Safety								
	- Modeshift Stars supported by Departament for Transport								
	-Farth Hour and W/W/E								
	-The Rig Battery Hunt								
	-Ways to reduce energy at school and home								