

	Science Skills, Knowledge & Vocabulary										
	Reception	¥1	Y2	¥3	¥4	¥5	Y6				
Observing over time	ELG – The Natural World Explore the natural world around them, making observations and drawing pictures of animals and plants. Understand some important processes and changes in the natural world around them, including the seasons and changes states of matter.	 Talk and write about the best ways of observing or measure the change. Create simple charts to show how something changes. Talk to partners about what they think has happened. Begin to think about and talk about connections. Support children to raise questions and suggest what they think will happen. With support plan what to do. (what to observe, how to measure, how often) Experiment with different methods of measuring – non- standard/standard units of measure. Record measurements using 	Measure more accurately and record the changes. Present data in a table or bar chart. Think about what factors may have affected what they observed and with support set up a test to investigate some of these factors . Suggest further questions to investigate.	Raise question Make predictions about what will happen. Plan how, what and when to measure. Record observation in appropriate ways. (scale diagrams, bar charts, tables) Describe findings with each other . Give simple explanations linking cause and effect. Evaluate what they do. Develop and use key vocabulary.	Record observations as line graph. Use simple models to demonstrate understanding. (e.g. torch and an object to create shadows)	Suggest how they could observe something over time. Use digital microscope, visualisers data loggers to observe changes over time. Make detailed drawings, create sequences of microscope images, mini videos, time lapse videos and photos, use small squared graph paper to measure area/spread. Draw line graphs. Use secondary sources to find out more. Ask questions about how a topic can be investigated.	Be more systematic and accurate in collection of data. Compare data collected in different conditions e.g. mould growth on different foods in different temps. Research ways of changing the outcome of results .(e.g. slowing something down, eliminating or improving)				

writing, drawings,		Plan how to carry	
photos or videos		out an	
		abcomution of all	
		observation safety	
Begin to relate ideas		and record results	
from observations to		systematically.	
other known		, ,	
experiences (e.g.		Take accurate	
experiences (e.g.		Take accurate	
puddies drying up		measurements.	
with a floor being			
washed at home)		Describe what	
,		they have	
Talk about whother		obsorved	
		observed.	
changes were what			
they expected and		Use scientific	
why.		knowledge to	
,		explain what they	
Develop and use key		baya abaanyad	
Develop and use key		nave observed.	
vocabulary.			
		Make predictions	
		about what would	
		hannen in	
		different	
		amerent	
		conditions.	
		Evaluate how	
		effective their	
		investigation was	
		and how the	
		might improve it.	
		Develop and use	
		Key vocabulary	
		Ney vocabulary.	

Identifying	ELG – The	Ask questions about	Sort objects by	Talk about what	Ask questions that	Decide when	Find creative
and	Natural World	why things are	observable and	criteria I will use to	need more detailed	identifying and	ways to record
classifying		similar or different.	behavioural	sort and classify	observations.	classifying will be	their findings.
	Know some		features.	things.		helpful to answer	
	similarities and	Decide what to			Compared guides and	a question.	Evaluate the
	differences	observe to identify or	Record sorting using	Decide what	keys with published		suitability of
	between the	sort things.	Venn and carol	equipment to use to	ones.	Decide what	materials/product
	natural world		diagrams.	identify and classify		equipment, tests	s/research
	around them and	Make comparisons		things.	Try out guides and	and secondary of	following sorting
	contrasting	between simple	Use records to help		keys with groups of	things. classify	and classifying.
	environments,	features of objects,	sort or identify other	Recognise when	children.	information to use	
	drawing on their	materials or living	things.	questions can be		to identify.	
	experiences and	things.		answered by sorting	Make simple		
	what has been		Use secondary	and classifying.	branching databases	Use a series of	
	read in class.	Look closely using	sources to find out		and keys for things	tests to sort and	
		hand lenses, digital	more about		that have more	classify materials.	
		microscopes and	similarities and	Carry out simple	than two choices.		
		taking photos.	differences.	tests to sort and		Use secondary	
		Decend charmentions		classify according to	Suggest improvements	sources to identify	
		Record observations		properties of	to the way things	things	
		ni simple wonds,		benaviour.	sorted and identified.	tnings.	
		pictures and tables.		Lico Carrol	Evaluato which	Make keys and	
		Sort objects by		diagrams Venn	question are most	branching	
		observable features		diagrams and more	useful when creating a	databases with	
		observable realures.		complex tables to	key	four or more	
		Lise simple sorting		sort things	Ney.	items	
		circles and tables		Sort tillings.		items.	
				Use simple		Use Venn and	
		Identify similarities		classification keys		Carol diagrams	
		and differences and		and branching		with more than	
		talk about them.		databases to		two criteria.	
				identify, sort			
		Use simple scientific		or classify.		Use more than	
		language to talk				one piece of	
		about how things are		Draw simple		scientific evidence	
		similar or different.		conclusions about		to identify and	
				the things that have		classify things.	
				been sorted and			
				classified.			

			Discuss similarities and differences identified using some scientific language.		Draw valid conclusions when sorting and classifying. Talk about and explain what has been done using scientific knowledge. Evaluate how well keys and branching databases have worked.	
Pattern	Ask questions about	Use standard units	Talk about where	Make records using	Recognise when	Present data in
seeking	why and how things are linked. With support decide what patterns to observe and measure and suggest how to do it. Use non-standard units and simple equipment to record events that might be related. Record in words or pictures, or in simple prepared formats auch at the set to be a tablea.	of measure of whole numbers to measure length/mass/capacit y/ Temperature. Use simple equipment (rulers/scales/therm ometers/ and measuring vessels) to record events that might be related. Compare what has been found with what had been predicted.	patterns might be found and recognise when questions can be investigated by pattern seeking. Decide on which sets of data tom collect, what observations to make and what equipment to use. Use a range of equipment to collect data using standard measures. Make records using tables and bar	tables, bar charts, line and time graphs. Begin to use and interpret data collected through data loggers. Begin to identify data that doesn't fit the trend and think about why this might be. Think about when the pattern changes and begin to explain why e.g. height and weight changes. Identify scientific	variable cannot be controlled and decide when pattern seeking will help to answer a question. Decide how detailed data needs to be, and which equipment to use, to make measurements as accurate as possible. Use equipment accurately to	scatter graphs and frequency charts. Be more systematic and precise in how data is collected. Distinguish between opinion and evidence. Recognise that data sets can be connected without it being a causal relationship.
	charts and maps.	systematically, making more specific	charts.	the pattern that they find.	observations.	Recognise anomalies in their

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	Identify simple	observations and	Draw simple	Record data	data and begin to
	patterns and talk	keeping pictorial	conclusions about	appropriately and	explain them.
	about them.	records.	simple patterns	accurately.	
			between two sets of		Evaluate
	Make links between	With support, collect	observations.	Present day in a	conclusions in
	two sets of	numerical data		variety of different	terms of the
	observations.	about numbers of	Talk about patterns	formats.	quality and
		things found and	using scientific		validity of the
	Begin to use	compare these.	language.	Recognise	data collected.
	scientific language to	(pictograms and tally		patterns in results	
	talk about patterns.	charts)	Suggest	Recognise the	
			improvements to	effect of sample	
	Discuss whether the		methods used to	size on reliability.	
	pattern was what		look for patterns.		
	was expected.			Draw valid	
			Choose how to	conclusions from	
			present data.	data about	
				patterns and	
			Use scientific and	recognise their	
			mathematical	limitations.	
			conventions. (e.g.		
			compare hand size	Recognise the	
			by area in cm2)	significance of	
				relationships	
				between sets of	
				data.	
				Talk about and	
				explain cause and	
				effect patterns	
				using scientific	
				knowledge and	
				understanding.	
				Evaluate their	
				own success in	
				looking for	
				patterns.	

Research	Ask questions about how things are and the way they work. Ask questions to find out what people do and how things work. Help make suggestions about how to find things out. Use simple books and electronic media to find things out. Record in words and pictures what has been found out. Begin to use scientific language tom talk about what has been found out. Talk about whether the information source was useful. Give an opinion about some things found out.	Select information from a wide range of sources, including suitable internet Sites. Use a graphic organiser to show the differences. (e.g. the different ingredients of chocolate and the effect if one ingredient is missing) Think about environmental impact.	Talk about how things are and the way they work and recognise when questions can be answered by research using secondary sources. Use information sources to find the information needed. Use someone else's data Record what has been found out in my own words. Present information in different ways. Draw conclusions from what has been found out from different sources. Talk about what the information and data means using some scientific language. Suggest ways to improve how to find out and use information.	Ask questions about how the data they are using was collected. Compare what people knew about a topic. (e.g. now with 500 years ago) Find more creative ways to share their findings.(e.g. blog/presentation) Find out about and discuss how scientific and technological developments help us to learn more.	Decide when research using secondary sources will help to answer questions. Decide which sources of information might answer questions. Use relevant information and data from a range of secondary sources. Recognise how data has been obtained. Start to notice when information and data is biased or based on opinions rather than facts. Present findings in suitable formats.	Ask questions that require more detailed information. Explain why some questions don't have definitive answers. Think about how the data they are using were collected and how valid they are. Describe technological and scientific developments in a specific area. Think about ethical and moral issues. Identify reasons why different sources my provide conflicting data.

v and how Suggest more	Talk about links	Begin to use and	Recognise when	Be more
ns. questions that t	hev between cause and	interpret data	variables need to	systematic and
could investigat	te effect and with help	collected through data	be controlled and	precise in how
omparisons	pose a fair test	loggers	decide when a	they collect data.
ow things Test different	question.		comparative or	
materials to find	d out	Make their own plans	fair test if the best	Take account of
which is best at	Help to plan a	and carry out a series	way to answer a	a greater range
pport, notice stopping the so	und. comparative or fair	of fair tests on different	question.	of variables.
etween cause	test.	aspects.	1	recognising
ect. Make their own		·	Plan a	which are most
suggestions ab	out Decide what data to	Make own decisions	comparative or	significant.
pport, identify how to make su	ure collect.	about how to present	fair test, selecting	5
that tests are fa	air.	data.	variables to	Write an article
es to change	Decide what		measure, change	about a topic.
asure.	equipment to use	Identify new questions	and keep the	
	and how to make	to be	same.	Recognise
nple	observations.	answered.		anomalies or
ative tests			Decide what	inconsistencies in
oport.	Use a range of	Think about issues	equipment to use	their data and try
	equipment to collect	relating to	to make	to explain them.
e non-	data using standard	science and	measurements as	
d units and	measures.	advertising, such as	accurate as	
equipment to		whether all claims are	possible.	
data.	Make records using	testable or justified.		
	tables and bar		Use equipment	
in words or	charts.		accurately to	
s, or in simple			collect	
ed formats	Draw simple		observations.	
s tables and	conclusions from		Decord data	
ans.	comparative and fair		Record data	
out the date	lesis.		appropriately and	
	Talk about and		accurately.	
			Procont data in	
			line graphs	
mparative			Identify casual	
rank	scientific language		relationships	
ls or objects			rolationompo.	
			Draw valid	
			conclusions	
	y and how hs. Suggest more questions that t could investigat Test different materials to find which is best at stopping the so Make their own suggestions ab how to make su that tests are fat that tests a	y and how ns.Suggest more questions that they could investigate.Talk about links between cause and effect and with help pose a fair test question.omparisons ow thingsTest different materials to find out which is best at stopping the sound.Test different question.Help to plan a comparative or fair test.pport, notice tween cause ext.Make their own suggestions about how to make sure that tests are fair.Decide what data to collect.pport, identify ative tests oport.Make their own suggestions about how to make sure that tests are fair.Decide what data to collect.out its and equipment to data.Nake records using tables and arts.Use a range of equipment to collect data.in words or s, or in simple d.Oraw simple conclusions from comparative and fair tests.out the data e been d.Talk about and explain simple causal relationships using some scientific language.	y and how rs.Suggest more questions that they could investigate.Talk about links between cause and effect and with help pose a fair test question.Begin to use and interpret data collected through data loggers.pomparisons ow thingsTest different materials to find out which is best at stopping the sound.Talk about links between cause and effect and with help pose a fair test question.Begin to use and interpret data collected through data loggers.popt, notice tween cause act.Test different materials to find out which is best at stopping the sound.Help to plan a comparative or fair test.Begin to use and interpret data collected through data loggers.popt, identify ative tests oport.Make their own suggestions about how to make sure that tests are fair.Decide what data to collect.Make own decisions about how to present data.a non- d units and equipment to data.Identify new questions to be answered.Identify new questions to be answered.in words or b, or in simple d formats tables and arts.Interpret dataThink about issues relating to be conclusions from comparative and fair tests.Think about issues relating to be conclusions from comparative and fair tests.materials to form comparative rank is or objects.Talk about and explain simple causal relationships using some scientific language.Think about ad interpret data	y and how ns.Suggest more questions that they could investigate.Talk about links between cause and effect and with help pose a fair test question.Begin to use and interpret data collected through data loggers.Recognise when variables need to be controlled and decide when a comparative or fair tests on different aspects.Recognise when variables need to be controlled and decide when a comparative or fair tests on different aspects.Recognise when variables need to be controlled and decide when a comparative or fair tests on different aspects.Recognise when variables need to be controlled and decide when a comparative or fair tests on different aspects.Recognise when variables need to be controlled and decide when a comparative or fair tests on different aspects.port, identify port, identify pora

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		Use simple scientific language to, describe simple causal relationships. With support, identify if the test was fair. Decide if the relationship was what was expected.		Suggest ways that can improve fair tests.	based on the data. Recognise the significance of the results of comparative and fair tests. Talk about and explain causal relationships using scientific knowledge and understanding. Evaluate the effectiveness of my comparative and fair testing, recognising variables that	
Plants	ELG – The	Identify and name a	Observe and	Identify and		
	Natural World	variety of common wild and garden	describe how seeds	describe the functions of different		
	Explore the	plants, including	mature plants.	parts of flowering		
	around them,	evergreen trees.	Find out and	stem/trunk, leaves		
	making observations and	Identify and describe	describe how plants	and flowers.		
	drawing pictures	the basic structure of	and a suitable	Explore the		
	ot animals and plants.	a variety of common flowering plants.	temperature to grow and stay healthy	requirements of plants for life and		
		including trees.	Veeebulerry	growth (air, light,		
	know some similarities and	Vocabulary: leaf.	bulb, germinate.	soil, and room to		
	differences	flower, petal, fruit,	seeding, bud,	grow) and how they		
	between the					

	natural world	root, seed, trunk.	flower, fruit, berry,	vary from plant to			
	around them and	branch. stem. bark	root	plant			
	contrasting			plant			
	environments			Investigate the way			
	drawing on their			in which water is			
	evneriences and			transported within			
	what has been			nlante			
	road in class			plants.			
	Teau III Class.			Explore the part that			
	Lindorstand some			flowers play in the			
	important			life evelo of			
	nrocossos and			flowering plants			
	processes and			inducting plants,			
	changes in the			including polimation,			
	natural world						
	including the			seeu uispersai.			
				Vaaabularu: raata			
	seasons and			vocabulary. Tools,			
	changes states of			stem/trunk, leaves,			
	maller.			photosynthesis,			
				ponen, ponnation,			
				seed formation,			
				seed dispersal,			
Listing			Evelone and	germination	December that living	Describe the	Describe have
Living	ELG – The		Explore and		Recognise that living	Describe the	Describe now
things and	Natural world		compare the		things can be grouped	differences in the	living things are
their bebitete	Evelone the		differences between		in a variety of ways.		
nabitats	Explore the		things that are living,			mammal, an	broad groups
	natural world		dead, and things		Explore and use	amphibian, an	according to
	around them,		that have never		classification keys to	insect and a bird.	common
	making		been alive.		neip group, identify	Describes the life	observable
	observations and				and name a variety of	Describe the life	characteristics
	drawing pictures		Identify that most		living things in their	process of	and based on
	of animals and		living things live in		local and wider	reproduction in	similarities and
	piants.		naditats to which		environment.	some plants and	anterences,
			they are suited and		December 44 et	animais.	including
	Know some		describe now		Recognise that	Manahulawa Kf	microorganisms,
	similarities and		different habitats		environments can	vocabulary: life	plants and
	differences		provide for the basic		change and that this	cycle,	animals.
	between the		needs of different		can sometimes pose	reproduction,	
	natural world		kinds of animals and			sexual	

	around them and		plants, and how they		dangers to living	reproduction,	Give reasons for
	contrasting		depend on each		things.	asexual	classifving plants
	environments.		other.		5	reproduction,	and animals
	drawing on their				Vocabulary:	fertilise.	based on specific
	experiences and		Identify and name a		classification.	metamorphosis.	characteristics.
	what has been		variety of plants and		classification kev.	runner. bulb.	
	read in class.		animals in their		environment, habitat.	cutting, tuber	Vocabulary:
			habitats including		migrate, hibernate,	,	vertebrate, fish.
	Understand some		microhabitats		vertebrates.		amphibian.
	important				invertebrates		reptile, bird.
	processes and		Describe how				mammal.
	changes in the		animals obtain their				invertebrate.
	natural world		food from plants and				plants
	around them		other animals using				planto
	including the		the idea of a simple				
	seasons and		food chain and				
	changes states of		identify and name				
	matter		different sources of				
	matter.		food				
			1000.				
			Vocabulary: living				
			dead never been				
			alive habitat				
			micro-habitat food				
			chain				
Animals	ELG – The	Identify and name a	Notice that animals	Identify that	Describe the simple	Describe the	Identify and
including	Natural World	variety of common	including humans.	animals, including	functions of the basic	changes as	name the main
humans		animals including	have offspring which	humans need the	parts of the digestive	humans develop	parts of the
	Explore the	fish, amphibians,	grow into adults.	right types and	system in humans.	to old age.	human
	natural world	reptiles, birds and	9	amount of nutrition.			circulatory
	around them.	mammals.	Find out about and	and that they cannot	Identify the different	Vocabularv:	system, and
	making		describe the basic	make their own	types of teeth in	pubertv. sexual	describe the
	observations and	Identify and name a	needs of animals.	food: they get	humans and their	reproduction,	functions of the
	drawing pictures	variety of common	including humans.	nutrition from what	simple functions.	menstruation.	heart, blood
	of animals and	animals that are	for survival (water.	they eat.		sperm, eaa.	vessels and
	plants.	carnivores,	food and air).		Construct and interpret	foetus,	blood.
	'	herbivores and	,	Identify that humans	a variety of food	gestation, life	
	Know some	omnivores.	Describe the	and some other	chains, identifying	expectancy	Recognise the
	similarities and		importance for	animals have	producers, predators		impact of diet,
	differences		humans of exercise,	skeletons and	and prey.		exercise, drugs

	between the natural world around them and contrasting environments, drawing on their experiences and what has been read in class.	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. Vocabulary: head, eyes, body, mouth, leg, wing, fin, feathers, beak, hooves, body, ears, teeth, tail, teeth, tail, claw, scales, fur, paws, hair	eating the right amounts of different types of food, and hygiene. Vocabulary: offspring, reproduction, growth, exercise, breathing, hygiene, germs, disease	nuscles for support, protection and movement. Vocabulary: nutrition, nutrients, carbohydrates, proteins, vitamins and minerals, fibre, skeleton, bones, muscles, joints	Vocabulary: digestive system, digestion, herbivore, carnivore, omnivore, producer, consumer, predator, prey, food chain	and lifestyle on the way their bodies function. Describe the ways in which nutrients and water are transported within animals, including humans. Vocabulary: heart, pulse, blood, blood vessels, lungs, circulatory system, diet, exercise, drugs, lifestyle
Evolution and inheritance						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 their environment in different ways and that adaptation may lead to evolution. Vocabulary: evolution, offspring, inherited, characterised, variation, adapted, environment, species, fossil
Seasonal	ELG – The	Observe changes			
changes	Natural World	across the four			
	Inderstand some	seasons.			
	important	Observe and			
	processes and	describe weather			
	changes in the	associated with the			
	natural world	seasons and how			
	around them,	day length varies			
	seasons and	Vocabularv:			
	changes states of	season, Autumn,			
	matter.	Winter, Spring,			
		Summer, weather,			
		sunrise, sunset			

Materials	Distinguish between	Identify and	Compare and group	Compare and	
	an object and the	compare the	materials together	aroup together	
	material from which it	suitability of a	according to whether	everyday	
	is made.	variety of everyday	they are solids. liquids	materials on the	
		materials, including	or gases.	basis of their	
	Identify and name a	wood, metal, plastic,	0	properties.	
	variety of everyday	glass, brick, rock,	Observe that some	including their	
	materials, including	paper and	materials change state	hardness.	
	wood, plastic, glass,	cardboard	when they are heated	solubility,	
	metal, water, and	for particular uses.	or cooled, and	transparency,	
	rock.	·	measure or research	conductivity	
		Find out how the	the temperature at	(electrical and	
	Describe the simple	shapes of solid	which this happens in	thermal), and	
	physical properties of	objects made from	degrees Celsius (°C).	response to	
	a variety of everyday	some materials can		magnets.	
	materials.	be changed by	Identify the part played	-	
		squashing, bending,	by evaporation and	Know that some	
	Compare and group	twisting and	condensation in the	materials will	
	together a variety of	stretching.	water cycle and	dissolve in liquid	
	everyday materials		associate the rate of	to form a solution,	
	on the basis of their	Vocabulary:	evaporation with	and describe how	
	simple physical	transparent,	temperature.	to recover a	
	properties.	translucent,		substance from a	
		opaque, flexible,	Vocabulary: change	solution.	
	Vocabulary: hard,	rigid, reflective,	of state, melting,		
	stretchy, bendy,	non-reflective,	freezing, melting	Use knowledge of	
	waterproof, breaks,	absorbent	point, boiling point,	solids, liquids and	
	rough, shiny, see		evaporation,	gases to decide	
	through, soft, stiff,		condensation, water	how mixtures	
	floppy, absorbent,		cycle, temperature	might be	
	tears, smooth, dull,			separated,	
	not see through			including through	
				filtering, sieving	
				and evaporating.	
				Give reasons,	
				based on	
				evidence from	
				comparative and	
				fair tests, for the	

			particular uses of
			everyday
			materials,
			including metals,
			wood and plastic.
			Demonstrate that
			dissolving mixing
			and changes of
			and changes of
			reversible
			cnanges.
			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
			soua.
			Veeebulewu
			vocabulary:
			thermal
			insulator,
			thermal
			conductor,
			electrical
			insulator,
			electrical
			conductor,
			dissolve,
			solution,
			soluble.
			insoluble, sieve.

			filter, evaporation, reversible change, non- reversible change	
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.		
		fossil, soil		
Light		Recognise that they need light in order to see things and that dark is the absence of light.		Recognise that light appears to travel in straight lines.
		Notice that light is reflected from surfaces.		light travels in straight lines to explain that objects are seen because they

Recognise that light from the sun can be dangerous and that there are ways to protect their eyes.Recognise that shadows are formed when the light from a light source is blocked by an opaque object.Find patterns in the way that the size of shadows change.Vocabulary: light, dark, light source, transparent, translucent, opaque, shadow, reflect, mirror	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 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. <i>Vocabulary:</i> <i>light source,</i> <i>straight lines,</i> <i>light ray, reflect,</i> <i>shadow</i>
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 magnete attract or	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
	Recognise that light from the sun can be dangerous and that there are ways to protect their eyes. Recognise that shadows are formed when the light from a light source is blocked by an opaque object. Find patterns in the way that the size of shadows change. Vocabulary: light, dark, light source, transparent, translucent, opaque, shadow, reflect, mirror Compare how thiftges move on different surfaces. Notice that some forces need contact between two objects, but magnetic forces can act at a distance. Observe how

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			repel each other		and friction that	
			and attract some		act between	
			materials and not		moving surfaces.	
			others.			
					Recognise that	
			Compare and group		some	
			together a variety of		mechanisms,	
			everyday materials		including levers,	
			on the basis of		pulleys and gears,	
			whether they are		allow a smaller	
			attracted to a		force to have a	
			magnet, and identify		greater effect.	
			some magnetic		•	
			materials.		Vocabulary:	
					force, gravity,	
			Describe magnets		forece meter.	
			as having two poles.		Newton (N), air	
			55		resistance, water	
			Predict whether two		resistance.	
			magnets will attract		friction	
			or repel each other		mechanisms	
			depending on which		simple machines	
			noles are facing			
			poleo are raoling.			
			Vocabulary: force			
			magnetic force			
			magnetic force,			
			ronol nolos			
			reper, pores,			
			contact force, non-			
Sound			contact force	Identify how counds		
Sound				are made acception		
				are made, associating		
				some of them with		
				something vibrating.		
				Decognico that		
				Recognise that		
				vibrations from sounds		
				travel through a		
				meaium to the ear.		
					1	

			Find patterns between	
			the nitch of a sound	
			and factures of the	
			and realures of the	
			object that produced it.	
			Find natterns between	
			the volume of a sound	
			the volume of a sound	
			and the strength of the	
			vibrations that	
			produced it.	
			F	
			Becognice that counds	
			Recognise that sounds	
			get fainter as the	
			distance from the	
			sound so.	
			Vocabulary: sound	
			Vocabulary. Sound,	
			souna source,	
			vibrations, pitch,	
			volume, sound	
			insulation	
Electricity			Identify common	Associate the
Licothony			appliances that run on	hrightness of a
			appliances that run on	brightness of a
			electricity.	lamp or the
				volume of a
			Construct a simple	buzzer with the
			series electrical circuit	number and
			identifying and paming	voltage of colle
			its basic parts,	used in the
			including cells, wires,	circuit.
			bulbs, switches and	
			buzzers	Compare and
				aivo roacone for
			Lateratific and a the end	give reasons 101
			identify whether or not	variations in now
			a lamp will light in a	components
			simple series circuit	function.
			based on whether or	including the
			not the lamp is part of	hrightnoss of
			a complete loop with a	bulds, the
			batterv.	loudness of

r	r	1			r
			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. Vocabulary: electricity, electrical appliance, mains, electrical circuit, cell and battery, electrical component, switch,		buzzers and the on/off position of switches. Use recognised symbols when representing a simple circuit in a diagram. Vocabulary: circuit, circuit symbol, circuit diagram, cell, battery, switch, voltage
			conductor insulator		
Earth and space				Describe the movement of the Earth, and other 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.
			Vocabulary: Earth, Sun, Moon, planets, solar system, star, rotate, orbit