

Cookridge Holy Trinity C of E (A) Primary School The Best for Every Child – A Unique Child of God

Science Skills and Progression

	Foundation	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Working Scientifically Planning	Ask questions based on exploration of the world around them.	Ask simple questions and recognise that they can be answered in different ways.	Respond to suggestions of how to answer questions about the world around them	Raise own relevant questions and use different types of scientific enquiry to answer questions.	Explore ideas and raise a range of relevant questions.	Explore ideas and raise a range of different kinds of relevant questions based on accurate scientific	Use simple models to describe scientific ideas. Explain how to construct a
	Respond to prompts by making some suggestions about how to find an answer.	Use simple secondary sources to find answers. Talk about similarities and	and ask effective and relevant questions.	Recognise when and how secondary sources should be used.	Recognise which secondary sources are most useful and begin to recognise the difference between fact and opinion.	<u> </u>	complex test. Plan different types of enquiries to answer questions and put measures in place to
		differences.		Make decisions about the most appropriate type of scientific enquiry to answer questions.	Select and plan the most appropriate type of scientific enquiry for answering a scientific	opinion from fact. Select and plan accurately the most appropriate type of scientific enquiry for	ensure accuracy and reliability. Select the most suitable variables to be investigated.
			appropriate type of scientific enquiry to use to answer questions.	Recognise and identify the factors needed to make a test 'fair'.	question. Decide which variables to measure change and keep	answering scientific questions. Decide which variables to	Identify some variables that cannot be controlled or explain.
			questions can be	Identify the factors in a simple 'fair' test that we will measure (variables) and keep the same (control).	the same. Demonstrate how to change one factor (variable) whilst keeping	measure change and keep the same. Demonstrate how to change one factor	Recognise some situations in which a fair test cannot be carried out.
					others the same (control). Identify and use an appropriate unit to measure variables effectively.	,	

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Working Scientifically Observation & Recording	Respond to prompts by making some suggestions about how to make an observation. Use senses and simple equipment to make observations. Talk about what happens and record using words and pictures Begin to record data in simple templates.	Carry out instructions for a simple investigation. Talk about and record what is seen and observed Take accurate measurements using simple equipment, e.g. cm and scales with one interval. Begin to identify and classify data and information. Record data using simple charts, tables and block graphs.	Describe what happens when taking part in simple investigations/fair tests. Begin to make decisions about what to observe, how long to observe for? Read simple scales and take accurate measurements using standard units, e.g. Thermometers, graduated beakers and data loggers. Talk about criteria for grouping, sorting and classifying, use simple keys. Record data using a range of charts, tables and block graphs and labelled diagrams.	Recognise when to set up simple practical enquires, comparative and fair tests. Make decisions about what to observe, how long to observe for, and the type of equipment needed. Make systematic and accurate observations and measurements. Use a range of measuring equipment appropriately including thermometers, data loggers etc. Gather, record, classify and present data in a variety of ways to help answer questions. Use and construct increasingly complex tables, line graphs and keys to record findings.	Recognise when and how to set up comparative and fair tests and begin to explain which variables need to be controlled and why. Make decisions about what to observe, what measurements to use and how long to measure them for. Choose appropriate equipment to make measurements, using standard units of measure and simple scales accurately and with precision. Gather, record, classify and present a range of data in different ways. Record data and results using scientific diagrams and labels, classification keys, tables, and bar and line graphs	Recognise when and how to set up comparative and fair tests and clearly explain which variables need to be controlled and why. Make independent and well-founded decisions about what to observe, what measurements to use and how long to measure them for. Choose the most appropriate equipment (with a variety of intervals and units) to make measurements and explain how to use accurately and with precision. Gather, record, classify and present data in a wide range of ways. Use a wide range of methods to record data including line graphs, scientific diagrams, classification keys, scatter, bar and line graphs etc.	Recognise when and how to set up comparative and fair tests and clearly explain which variables need to be controlled and why. Record observations and measurements systematically. Choose the most efficient units of measurement and convert as and when appropriate. Present comparative data in a range of formats including, pie charts, line graphs and scatter grams etc. Label diagrams using appropriate scientific symbols, e.g. circuit diagrams in parallel.
Working Scientifically Conclusions	Begin to use simple features to compare objects, materials and living things. Identify what has changed when observing objects, living things or events. Talk in simple terms about what might happen based own experiences.	Talk about describe and sort simple similarities and differences, noting patterns and relationships. Record and communicate findings in a range of ways using simple scientific language. Talk about what has been found out and how it was discovered.	Begin to look for patterns and decide what data to collect to identify them. Talk about data collected from observations and measurements, using drawings, labelled diagrams, notes, simple tables and keys, standard units and simple equipment including data loggers.	Look for patterns and decide on the range of data needed to identify them. Collect data from observations and measurements, using notes, simple tables and standard units, using drawings, labelled diagrams, keys, bar charts and tables. Identify changes, patterns, similarities and differences	Decide how to record data from a choice of familiar approaches. Use relevant scientific language to communicate findings and justify scientific ideas. Look for different relationships in data and begin to identify evidence that refutes or supports ideas.	Decide in detail how to record data accurately from a choice of familiar approaches. Use relevant scientific language and illustrations to discuss, communicate and justify findings and scientific ideas. Look for a range of different relationships in data and begin to identify evidence that	Use quantitative and qualitative data to support conclusions. Use scientific knowledge and understanding to challenge the conclusions of others. Identify a range of scientific evidence that has been used to support or refute ideas or arguments.

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	Talk in simple scientific terms about what might happen and why? (prediction)	Begin to draw and express some conclusions, by looking at changes, patterns, similarities and differences in data. Begin to identify new questions arising from data, make new predictions for new values within or beyond the data collected.	in data in order to draw conclusions. Suggest improvements and identify new questions arising from data, make new predictions for new values within or beyond the data collected. Report on findings from enquires including oral and written explanations.	Make practical suggestions about how working methods could be improved. Use results to identify when further tests and observations might be needed. Make general statements such as: 'the hotter the water, the faster the sugar dissolves'	refutes or supports ideas. Identify when tests need to be repeated in order to attain reliable results. Use test results to make predictions and set up further comparative and fair tests. Make increasingly measured general statements such as: 'As the temperature increases the mass of the sugar which can be dissolved increases.'	Identify when tests need to be repeated in order to attain reliable results. Use test results to make predictions, supported by relevant and accurate evidence to set up further comparative and fair tests.
Plants Key Questions S1- What is a plant? S2- What do plants need to grow? S3- How do plants function? S4- Are all plants the same? S5- What do we know about plant life cycles? S6- What do we know about the features and functions of plants?	Identify and name a variety of common wild and garden plants, including deciduous and evergreen trees. Identify and describe the basic structure of a flowering plant including roots, stem/trunk, leaves and flowers.	Observe and describe how seeds and bulbs grow into mature plants. Find out about and describe what plants need to grow and stay healthy, including, water, light and temperature.	Identify and describe the functions of different parts of flowering plants, including roots, stem/trunk, leaves and flowers. Explore the requirements of plants for life and growth (air, light, water, nutrients from soil and room to grow) and how these vary from plant to plant and the way in which water is transported in plants. Explore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal.			Describe using scientific vocabulary the key functions of a plant, including reproduction. Describe the process of photosynthesis.

Animals, including Humans Key Question S1 – Are all animals the same? S2 – How do animals live and grow? S3- What do animals need to be healthy? S4 – 'What' inside my body? S5 – How do my organs work? S6 – How do animals live and grow?	Identify and name a variety of common animals such as amphibians, mammals and invertebrates. Draw and label the main parts of the human body and link body parts to the associated senses. Name and talk about the young of humans and other animals.	Describe in simple terms the changes that take place as animals grow. Find out about and describe the basic needs of animals including humans for survival (water, food and air) Describe the importance for humans of exercise, a balanced diet and hygiene, including how to look after teeth. Talk in simple terms about how animals grow & reproduce.	Identify that animals including humans need the right types and amount of nutrition and that they cannot make their own food, that they need nutrition from what they eat. Name and describe key features of the human body, including organs, skeleton and muscles. Identify and describe simple features of human and other animal skeletons, and how muscles are used for support, protection and movement. Describe scientifically the function of the main organs in the body, including muscles, the skeleton and their main functions.	Describe the simple functions of the human digestive system in humans Identify the different types of teeth in humans and their simple functions. Construct and interpret a variety of food chains, identifying producers, predators and prey.	Describe the changes that take place as humans develop from birth to old age. Learn about the changes that take place during puberty. Draw a timeline to indicate stages in the growth and development of humans. Recognise that normally the offspring of a living thing will not be identical to its parents. Recognise the impact of diet, exercise, drugs and lifestyle on the functions of the body	Identify and name the main parts of the human circulatory system, and explain the functions of the heart, blood vessels and blood. Explain in detail the impact of diet, exercise, drugs and lifestyle on the way the body functions. Describe the ways in which nutrients and water are transported within animals, including humans. Explain how and why our muscles use oxygen. Name all the main food groups and explain how they are used by the body.
S6 – How d		8.01.01.4	organs in the body, including muscles, the skeleton and their main			

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All Living	Explore and	Describe basic life	Describe and explain the	Describe how living things
Things	compare the	processes, e.g. growth	differences in the life	are classified into broad
Key	differences between	and reproduction.	cycles of a mammal, an	groups according to
Question	things that are living,		amphibian, an insect and a	common observable
S1- What is	dead and things that	Describe differences and	bird.	characteristics and based on
similar a	have never been	similarities between a		similarities and differences
	alive.	range of living and	Describe the feeding	including micro-organisms,
group of		nonliving things.	relationships between	plants and animals.
animals or	Recognise that living		plants and animals in a	
plants? S2-	things grow and	Use keys based on	range of habitats.	Give reasons for classification
What is	reproduce.	external features to help	B	of plants and animals based
the		identify and group living	Recognise that living	on specific characteristics.
difference	Describe the basic	things systematically.	things produce offspring	Endeto hadiffeed
between a	conditions that plants	December and attendation	of the same kind, but	Explain why different
selection	and animals need in	Describe relationships	normally offspring vary	organisms, including micro-
of animals	order to survive.	using food chains, for	and are not be identical to their parents.	organisms are found in different habitats.
or plants?	Describe and compare	example, predator and	to their parents.	different nabitats.
	Describe and compare features of living,	prey.	Recognise that living	Explain the purpose &
S3-What	dead and non-living	Describe features of	things have changed over	importance of classification.
questions	things.	plants and animal and	time and that fossils	importance or classification.
could you	Chings.	compare similarities and	provide information	Develop and use complex
ask to sort	Describe reasons for	differences between	about living things that	keys and food chains.
a group of	criteria for sorting and	sub-groups, recognising	inhabited the earth	keys and rood chains.
living	grouping, for	that all living things can	millions of years ago.	Generate detailed life cycles
animals/pl	example, number of	be grouped in different	minoris or years ago.	for plants and animals.
ants? S4-	legs, shape of leaf.	ways.	Identfiy an increasing	rer plants and allimets.
How could	legs) shape or learn		range of features of living	Describe the impact of
you sort a	Recognise and talk	Explore and use	and non-living things in	changes to environmental
	about different	classification keys to	detail.	factors [for example, the
group of	living things found	help to group, identify		availability of light or water].
animals or	in different places,	and name a variety of	Describe the life process	, 0
plants? S5-	for example, ponds,	living things in the local	of reproduction in some	Use scientific vocabulary to
How are	woods.	and wider environment.	plants and animals.	discuss and explore
groups of				relationships between
animals	Use a simple food	Recognise that		related processes, e.g.
interdepe	chain, identifying and	environments can		pollution and fertilisation.
ndent? S6-	naming different	change and that this can		
How have	sources of food.	pose dangers to living		Describe how micro-
groups of		things.		organisms move between
animals	Identify ways in			food sources and how this
	which an animal or	Identfiy the key features		causes food poisoning.
changed	plant is suited to its	of living and non-living		
over time?	environment, for	things in detail.		Explain how and why
	example, a fish			feeding, growing and
	having fins to help			reproduction are essential for
	it swim.			micro-organisms.
	Describe in simple			Recognise that micro-
	terms how fossils are			organisms feed, grow and

		formed when things			reproduce like other
		that have lived are			organisms.
		trapped within rock.			3
					Recognise and suggest ways
		Sort and group plants			of preventiing the spread of
		and animals according			harmful micro-organisms.
					narmful micro-organisms.
		to simple features.			
					Identify and discuss in simple
		Identify a range of			terms things that can cause
		similarities and			illness or decay. Identify and
		differences between			talk about known
		animals and plants.			microorganisms e ,g, mould
		·			in some cheeses.
		Describe how animals			
		obtain their food from			
		plants and other			
		animals.			
		ariiriais.			
		Construct and			
		interpret a variety of			
		food chains,			
		identifying			
		producers, predators			
		and prey.			
Earth and	Observe and talk about			Describe the movement	
Space	changes across the four			of the Earth, and other	
	seasons			planets, relative to the	
Key				Sun in the solar system.	
Question	Observe and describe			San in the Solar System.	
S1- What's	weather associated			Describe the Sun, Earth	
the	with the four seasons			and Moon as	
difference					
• •	and how the day length			approximately spherical	
between	varies.			bodies.	
the winter					
and				Use the idea of the	
summer?				Earth's rotation to	
S2- Where				explain day and night and	
does this				the apparent movement	
animal/				of the sun across the sky.	
· ·					
plant live?				Identify the changes that	
S3- How do				occur in shape of the	
we get day				moon over time.	
and night?					
3/1-VV/1V			1		
S4-Why					
does the shape of					

the moon					
change?					
S5-What's					
in our Solar					
system?					
S6-How					
are					
organisms					
, habitats					
and					
environm					
ental					
factors					
linked?					
				D 11 1 1 1 1	
Everyday	Identify and name a	Identify and compare	Identify and give reasons	Describe in detail	
Materials	variety of everyday	the uses of a range of	why materials are used	properties of metals, e.g.	
Key	materials, including	common everyday	for a specific task or	electrical conductivity.	
Question	wood, plastics, glass,	materials and their	purpose.	Marian and the second	
S1 How	metal, water and rock.	properties.	Compare and group	Use my growing knowledge to compare	
could you	Describe the physical	Healmanilades and	everyday materials based	the similarities and	
describe	properties of a range of	Use knowledge and understanding of	on evidence from	differences between a	
this	everyday materials.	materials to sort and	comparative and fair	wide range of materials	
material?	everyday materiais.	group materials.	tests, based on hardness,	and their properties,	
	Compare and group	Identify and describe	solubility, transparency,	including metals and	
S2 How	different kinds of rocks	the features of sub-	conductivity (electrical	other solids	
would you	based on appearance and	groups within a	and thermal) and	otrici solids	
sort these	simple physical	material with the	response to magnets.	Give reasons for the	
materials?	properties.	same properties, e.g.		magnetic behaviour of a	
S3-Where	F - F	oak, beech, birch etc.	Compare and group	range of materials.	
do you find	Identify and compare the	, ,	materials together,	S	
rocks?	suitability of a range of	Describe why	according to whether	Explain how the	
S4- What	everyday materials based	materials are used for	they are solids, liquids or	differences between the	
could this	on simple physical	different purposes,	gases.	properties of different	
material be	properties , e.g.	e.g. glass for		materials can be used to	
used for?	smooth, soft, hard	windows.		classify substances.	
S5- What					
material	Talk about what common				
would	materials are used for,				
	e.g. glass for windows.				
keep					
somethi					
ng					
warm?					
S6 – Why					
is this					
material					

			1			
good for?						
JOI:						
Changing	Name and describe some	Find out how the		Describe evaporation and	Use developing	
Materials	simple solids and liquids.	shapes of solid		condensation in the	knowledge of solids,	
Key		objects made from		water cycle making the	liquids and gases to	
Question	Describe processes that	some materials can		link between the rates of	describe how mixtures	
S1-What	can be used to change	be changed,		evaporation with	might be separated,	
	the shape of some	e.g.bending,		temperature.	including	
happens when I	materials, e.g. bending	twisiting and			through filtering, sieving	
	and stretching.	stretching. melting,		Observe that some	and evaporating.	
squash, roll stretch this		freezing and forces etc		materials change state when heated or cooled	Identify and describe a	
material?		etc		and that some can be	range of contexts in	
S2- How		Identify a range of		reversed, e.g. freezing	which change takes place,	
		simple reversible and		water and that some	e.g. evaporation and	
can I		irreversible changes,		are irreversible, e.g.	condensation.	
separate a		e.g. heating and		baking clay.		
simple		cooling.			Describe, and give	
solids mixture?		Danaguias that asses		Measure or research the	reasons for the	
S3- What		Recognise that some things dissolve.		temperature at which materials change state	differences between solids, liquids and gases.	
happens		things dissolve.		when heated or cooled.	solius, liquius ariu gases.	
when I		Separate a solid from		Describe the difference	Describe in detail,	
warm this		a liquid with support.		between solids and	processes such as	
material				liquids.	separation, filtration,	
in warm				_ , , , , ,	mixtures and solutions.	
water?				Describe in simple terms	Describe the in	
S4-What				the separation of solids by filtration.	Describe the way in which the arrangement	
are				by middlon.	of molecules is affected	
reversibl					by the change of state.	
e					· ·	
changes					Demonstrate that	
and					dissolving, mixing and	
irreversi					changes of state are	
ble					reversible changes.	
changes?					Know that some	
S5-How					materials will dissolve in	
does					liquid to form a solution,	
temperatur					and describe how to	
comperatur			J			

e change			recover a substance from	
water and			a solution.	
other				
materials?(s			Use knowledge of solids,	
tates of			liquids and gases to	
matter) S6-			decide how mixtures	
How has			might be separated,	
			including through	
this			filtering, sieving and	
material,			evaporating.	
mixture,			Dama an atmata that	
solution			Demonstrate that	
solution			dissolving, mixing and	
been			changes of state are reversible changes.	
changed?			reversible changes.	
J			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 vinegar	
			(acid) on bicarbonate of	
			soda.	
			Describe in detail the	
			properties of liquids,	
			solids and gases.	
Light		Recognise that light is		Use knowledge of how light
Key		needed to see things and		travels to predict the size of
Question		that dark is the absence of		a shadow when the position
S1- Where		light.		of the light source changes.
do light				
_		Talk about features of light		Explain the concept of
/sounds		and dark.		reflection and explain how a
come from?				non-luminous object can be
S2- What		Talk about and describe		seen.
are the		how a shadow is formed.		December and a state t
differences		Describe the link between		Recognise and explain how
between		Describe the link between brightness and distance.		light appears to travel in
light and		brightness and distance.		straight lines.
dark? S3-		Use the terms transparent		Use the idea that light
How is a		& opaque when describing		travels in straight lines to
shadow		light.		explain why shadows have
formed?		iigiic.		the same shape as the object
S4- Why		Use scientific terms to		that casts them. Use
		describe shadows,		knowledge of how light
does a		acocibe siladows,		MIOWICAGE OF HOW light

shadow length change? S5- How does distance affect light? S6 - How does light trave!? S7- How can light be changed? S8 - How can we change shadows?		including the way in which they are formed and can be altered. Recognise that shadows are formed when light from a light source is blocked by a solid object. Notice that light is reflected from surfaces. Recognise that light from the sun is dangerous and that there are ways to protect the eyes. Describe what happens to a light source in the dark. Find patterns that determine the size of shadows. Describe the way in which light is reflected from surfaces.		travels to explain the formation of shadows. Use the idea that light travels in straight lines to explain that objects can be seen because they give out or reflect light into the eye. Explain that things are seen because light travels from light sources to the eye or from light sources to objects and then to the eye. Use scientific terms to describe the functions of the eye.
		how light travels and what		
		happens.		
Sound and			Describe in detail how sound travels and how it	
Waves Key			can be changed.	
Question			Find patterns between	
S1 - How are			the pitch of a sound and	
sounds			features of the object that produced it.	
made?			·	
S2- How			Find patterns between	
does			the volume of a sound and the strength of the	
distance affect			vibrations that produce	
sound?			it.	
S3 - How			Find nattorns hotus	
does sound			Find patterns between the pitch of a sound and	
travel?			features of the object that produced it.	

S4- Why can				Find patterns between		
-				the volume of a sound		
I hear						
sounds?				and the strength of the		
S5- How can				vibrations that produce it.		
sounds be				Talk about how sound		
changed?				travels.		
U				tiaveis.		
				Use the term vibration,		
				when describing sounds		
				and recognise that		
				vibrations from sounds		
				travel through a medium		
				to the ear.		
				Recognise that sounds		
				get fainter as the distance		
				from the sound source		
				increases.		
				Use everyday words to		
				describe sounds.		
				acserise searrasi		
				Use my knowledge of		
				materials and the way in		
				which sound travels to		
				explain		
				how we hear through		
				different states of		
				matter.		
Electricity				Recognise that a light		Record and construct a
-				switch turns a bulb on and		parallel and series electrical
Key				off.		circuit, identifying and
Question				011.		
S1- How can						naming its basic parts.
				Explain in simple terms		
I light a				how a circuit works.		Explain the link between the
bulb/make a						brightness of a bulb or
circuit?				Make and draw a simple		volume of a buzzer with the
S2-How can				series circuit.		number and voltage of cells
I turn a bulb						used in the circuit.
on and off?						
				Recognise that batteries		Compare and give reasons
S ₃ - How can				are a source of electricity.		for variations in how
I make this				a. c a source or electricity.		components function,
component						
•				Make circuits with more		including the brightness of
work				one than 1 bulb.		bulbs, the loudness of
better?						buzzers and the on/off
S4- Why				Explain simply how the		position of switches.
						position or switches.
doesn't this				number of batteries		
circuit in						
	i	i	i .		1	

series			affects the amount of	Use recognised symbols
work?			electricity.	when representing a simple
			,	circuit diagram.
S5- Which			Talk about the effect of	
material			making or breaking	Identify whether or not a
would make			contacts in a circuit.	bulb will light in a simple
the best			corrects in a circuit.	parallel or series circuit
switch?			Recognise common	based on whether or not
S6- How			conductors and	the bulb is part of a
does this			insulators.	complete loop with a
			ilisulators.	battery.
circuit			Describe why a bulb	battery.
(series and			,	Danagaina that a suitab
parallel)			won't light and identify	Recognise that a switch
work?			the problem within the	opens and closes a circuit
			circuit.	and the impact on a bulb
				within a series circuit.
			Construct and record a	
			simple series circuit, and	Use by knowledge of
			name its basic parts,	conductors & insulators to
			including cells, wires,	construct wires.
			bulbs, switches and	
			buzzers.	Draw a complex circuit using
				standard scientific symbols.
			Know that a bulb lights	
			up when there is an	Explain and use the term
			effective conducting	resistance correctly.
			material in the circuit	
			and is part of a	Talk about what happens
			complete circuit.	when connecting
				components in circuits.
			Describe what happens	-
			when making and	Use an effective model to
			breaking a circuit,	explain electrical flow.
			recognise that a switch	
			opens and closes a circuit	Explain scientifically what
			and link to the lighting of	happens if you change the
			a bulb.	number of bulbs.
			Identify common	Explain how to/what
			appliances that run on	happens when you connect
			electricity.	more than 1 battery.
			ciccincity.	Describe the use of
			Recognise common	conductors & insulators in
			conductors and insulators	wires.
			and associate metals with	WII CS.
			being good conductors	
			Bosond and construct -	
			Record and construct a	
			series electrical circuit,	

				identifying and naming its		
				basic parts.		
				Susic pares.		
				l d andife la atla an anna at a		
				Identify whether or not a		
				bulb will light in a simple		
				series circuit based on		
				whether or not the bulb		
				is part of a complete loop		
				with a battery.		
				, and the second		
F 0			Talk about why some		Identify the effects of	
Forces &			Talk about why some			
Magnets			objects will not move.		air resistance, water	
Key					resistance and friction	
Question			Recognise that actions		that act between	
•			such as, throw, kick and		moving surfaces.	
S1-How do			blow are examples of			
things			pushes and pulls.		Recognise that some	
move? S2-			1		mechanisms including	
What			Describe the way in which		levers, pulleys and gears	
			pushes and pulls can make		allow a smaller force to	
makes						
things			objects speed up, slow		have a greater effect.	
move?			down and change			
S3-What is			direction.		Recognise that weight is a	
-					force and is measured in	
a force?			Compare how things move		Newtons.	
S4- Why do			on different surfaces.			
magnets					Use a Force meter	
move each			Observe how magnets		accurately.	
other?			attract or repel each other		accuracily.	
			-		Danagaina thatban an	
S5- How can					Recognise that when an	
I measure			materials and not others.		object is at rest the forces	
the size of a					are balanced.	
force?			Describe magnets as having			
,			two poles.		Recognise that	
S6-What					unsupported objects fall	
does a force			Notice that some forces		to Earth because of the	
look like?			need contact between 2		force of gravity acting	
			objects, but magnetic		between the Earth and	
			forces can act at a distance.		the falling object.	
			iorees carract at a distance.		are raining object.	
			Compare and group		Identify the effects of air	
					•	
			together a variety of		and water resistance that	
			everyday materials on the		act between moving	
			basis of whether they are		surfaces.	
			attracted to a magnet, and			
			identify some magnetic		Recognise that force	
			materials.		and motion can be	
					transferred through	
			Predict whether 2 magnets		mechanical devices such	
			will attract or repel each		ea.amear actices such	
			win actiact or repereacif			

other, depending on which poles are facing. Recognise that pushes and pulls will bring an object to rest more quickly. Describe graintional attraction, magnetic attraction and friction. Identify the effects of friction acting between moving surfaces Predict whether two magnets will attract or repel each other, depending on which poles are facing. Describe situations where Describe motion in detail, in terms of balanced and unbalanced forces. Describe how gravity acts between the Earth and a falling object. Draw a diagram to show the size and direction of
poles are facing. Recognise that pushes and pulls will bring an object to rest more quickly. Describe situations where friction is helpful and where it is not. Identify the effects of friction acting between moving surfaces Predict whether two magnets will attract or repel each other, depending on which poles are facing. Describe how gravity acts between the Earth and a falling object. Describe situations where the size and direction of
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Describe situations where the size and direction of
there is more than one forces acting on an object.
force acting on an object.
Use a force meter, with a
Compare and group range of scales to weigh
everyday materials that are objects accurately.
magnetic and identify
magnetic materials.
Identify factors than
increase resistance.
include teststatien
Compare how objects move
on different surfaces.
Talk about materials that
are magnetic.

Rocks Key Question S1-What are the different kinds of rocks? S2- What different properties do rocks have? S3- How are fossils formed.?		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.		
Evolution and Inheritance Key Question S1-How are living things adapted to suit their environmen t?? S2- How is the fossil record used to explain how living things change over time?				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.