

Year 1 now that ou need to	Year 2 ●To know that	Year 3	Year 4	Year 5	Year 6
	• to know that	- D I	. T		
ou need to		●Rocks	•To accurately use a	•Know how to plan	•Know that a fair
	exercise makes our	Identifying,	thermometer to	different types of	test is ensuring that
sk	heart pump faster.	grouping and	measure	enquires.	all the variables
		classifying,	temperature.	Know how to read,	stay the same apart
e	Predict what will	comparative and	To know how to	spell and	from the one
cientists.	happen before	fair testing	use a data logger to	pronounce	variable that is
now how	during after	To look at the	measure	vocabulary	being measured.
o perform	exercise.	appearance of rocks	temperature and	accuratly.	Know that tea does
mple tests.		and their texture to	decibels.	Know how to	not dissoolve but
	Know how to	group them	-To record findings	report and present	colours and
	measure acurately	together.	in a table.	findings from	flavours the water
	and record the	●Through	To accurately	enquiries.	it is in.
	information.	sequencing how	measure liquid	Know how to	Know that a fair
	◆To know how to	fossils are formed.	using ml.	explain casual	test is ensuring that
	perform a fair test.	See Block 3 how	•-To understand the	relationiships	all the variables
	◆To know how to	fossils are formed.	process of setting	during an	stay the same apart
	record results from	◆To gather samples	up a fair test.	observation.	from the one
	an investigation.	of soil and look	•To plan	Know how to	variable that is
	•To know that a seed	closely using	•	control the	being measured.
	grows into a plant	magnifying glasses,	answer scientific	temperature of ice	Light is a form of
	•	create a Pic Collage	questions.	•	energy that travels
	it	•	•	experiment.	in a wave from a
		<u> </u>		•Know how to	source.
		labels to name			
	uestions to e cientists. now how o perform	 Predict what will happen before during after exercise. Know how to measure acurately and record the information. To know how to perform a fair test. To know how to record results from an investigation. To know that a seed grows into a plant and recognise that 	 Predict what will happen before during after exercise. Know how to measure acurately and record the information. To know how to perform a fair test. To know how to record results from an investigation. To know that a seed grows into a plant and recognise that it classifying, comparative and fair testing To look at the appearance of rocks and their texture to group them together. Through sequencing how fossils are formed. See Block 3 how fossils are formed. To gather samples of soil and look closely using magnifying glasses, create a Pic Collage showing photo of soil and adding 	e e e e e e e e e e e e e e e e e e e	exestions to e Predict what will happen before during after exercise. • Know how to measure acurately and record the information. • To know how to perform a fair test. • To know how to read, spell and pronounce vocabulary accuratly. • To look at the appearance of rocks and their texture to group them together. • Through sequencing how fossils are formed. See Block 3 how record results from an investigation. • To know that a seed grows into a plant and recognise that it • Know how to use a data logger to measure temperature and decibels. • To record findings in a table. • To record findings in a table. • To accurately measure liquid using ml. • To understand the process of setting up a fair test. • To plan investigations to answer scientific questions. • Know how to control the temperature of ice during an experiment. • Know how to spell and pronounce vocabulary accuratly. • Know how to read, spell and pronounce vocabulary accuratly. • Know how to read, spell and pronounce vocabulary accuratly. • Know how to read, spell and pronounce vocabulary accuratly. • Know how to read, spell and pronounce vocabulary accuratly. • Know how to report and present findings in a table. • To accurately measure liquid using ml. • To understand the process of setting up a fair test. • To plan investigations to answer scientific questions. • Know how to explain casual relationiships during an observation. • Know how to control the temperature of ice during an experiment. • Know how to control the temperature of ice during an experiment.



- needs a balance of water and sunlight.
- •To know that a predicition is an edcuated guess and be able to make a sensible prediction based on prior knowledge.
- what they see in it.
 To add labels to their diagram showing that soil is made up of air, water, minerals (broken down rocks) and organic matter (living and dying plants and animals).
- To know that soil can be permeable and impermeable.
 To compare different soil samples.
- Animals, including humans.
- Research, identify, classifying and grouping, pattern seeking
- Marketplace activity to why they

- by asking relevant questions.
- -Know what is a fair test
- -Know how to present data and record in simple scientific language.
- -Know how to draw simple conclusions, use evidence to support findings.
- to set up careful investigations and understand how to make it a fair test.
- To understand the need for accurate observations.
- Know how to plan different types of enquires.
- Know how to read, spell and pronounce

- •table and line graph.
- Know how to use evidence to support reversable and irreverable changes.
- Know how to measure accuratly using a Newton metre.
- Know how to test and conclude how an object moves through the air.
- Know how to control variables.
- Know how to read, spell and pronounce 'Space' and 'Working Scientifically' vocabulary using a dictionary.

- A light source is an object that makes its own light.
- Reflection is when light bounces off a surface, changing the direction of a ray of light.
- An incident ray is a ray of light that hits a surface.
- •A reflected ray is a ray of light that has bounced back after hitting a surface.
- •The law of reflection is the law that states that the angle of the incident ray is equal to the angle of the reflected ray.
- We need light to be able to see things.
 Light waves travel



- are important to humans.
- •To use endoskeleton (internal), exoskeleton (external) and hydroskeleton (no bones, water) to classify and group animals.
- research the different food groups and why they are important to humans.
- To use endoskeleton (internal), exoskeleton (external) and hydroskeleton (no bones, water) to classify and group animals.

- vocabulary accuratly.
- Know how to report and present findings from enquiries.
- Know how to explain casual relationiships during an observation.
- Know how to control the temperature of ice during an experiment.
 Know how to record

Know how to record data on a

- •table and line graph.
- Know how to use evidence to support reversable and irreverable changes.

- Know how to create a diagram of how the earth, moon and sun are related to each other.
- Know how to plot different weather temperatures on a line graph.
- Know the different phases of the moon and present these findings in a range of ways.
- Know how to investigate the size of a creator.
- Know how the gravitational pull of the moon, impacts the tides.
 Know that seasons occur by the

- out from sources of light in straight lines. These lines are often called rays or beams of light.
- •Light travels as a wave. But unlike waves of water or sound waves, it does not need a medium to travel through. This means light can travel through a vacuum a completely airless space.

Isaac Newton shone a light through a

 transparent prism, separating out light into the colours of the rainbow (red, orange, yellow,



To choose a question

— Am I / you a

square? Do taller

children have longer

arms/ bigger feet? To

use measurnig skills

accurately to

investigaate and

answer question

- Light
- Explore how different objects are more or less visible in different levels of lighting.
- Explore how objects
 with different
 surfaces, e.g. shiny
 vs matt, are more
 or less visible.
- Explore how shadows vary as the distance between a light source and an

- Know how to measure accuratly using a Newton metre.
- Know how to test and conclude how an object moves through the air.
- •Know how to control variables.
- •environment is best suited.

- •movement and tilt of the earth.
- Know how to measure a shadows length using centimetres and metres.
- Know how to explain the process of photosynthesis by counting bubbles using water, a heat source and varied distance.
- Know how to conduct an enquiry- growing beans in a bag.
 Know how to plan different sceintific enquires- change variables for the beans to see which

green, blue, indigo and violet) - the colours of the spectrum. All the colours together merge and make visible light.
A shadow is always the same shape as the object that casts

- it. This is because when an opaque object is in the path of light travelling from a light source, it will block the light rays that hit it,
- transparent prism, separating out light into the colours of the rainbow (red, orange, yellow, green, blue, indigo and violet) - the colours of the



object or surface is	spectrum. All the
changed.	colours together
Explore shadows	merge and make
which are connected	visible light.
to and disconnected	A shadow is always
from the object e.g.	the same shape as
shadows of	the object that casts
clouds and children	it. This is because
in the playground.	when an opaque
•Choose suitable	object is in the path
materials to make	of light travelling
shadow puppets.	from a light source, it
Create artwork	will block the light
using shadows.	rays that hit it,
Evidence	•while the rest of
opportunities	the light can
Can describe	continue travelling
patterns in visibility	
of different objects	
in different lighting	
conditions and	
predict which will	
be more or less	
visible as conditions	
change	



Can clearly explain,	
giving examples, that	
•objects are not	
visible in complete	
darkness	
Can describe and	
demonstrate how	
shadows are	
formed by blocking	
light	
Can describe,	
demonstrate and	
make predictions	
about patterns in	
how shadows vary	
●Forces and Magnets	
Carry out	
investigations to	
explore how objects	
move on different	
surfaces e.g. spinning	
tops/coins, rolling	
balls/cars,	
•clockwork toys,	
soles of shoes etc.	



Explore what
materials are
attracted to a
magnet.
Classify materials
according to
whether they are
magnetic.
• Explore the way
that magnets
behave in relation
to each other.
Use a marked
magnet to find the
unmarked poles on
other types of
magnets.
Explore how magnets
work at a distance
e.g. through the
table, in water,
jumping
• paper clips up off
the table.



• Devise an	
investigation to test	
the strength of	
magnets.	
 Evidence 	
Opportunities	
 Can use their 	
results to describe	
how objects move	
on different	
surfaces	
•Can use their	
results to make	
predictions for	
further tests e.g. it	
will spin for longer	
on this surface than	
that, but not as	
long as it spun on	
that surface	
Can use classification	
evidence to identify	
that some metals,	
but not all, are	
magnetic	



•Through their		
exploration, they		
can show how like		
poles repel and		
unlike poles attract,		
and name		
unmarked poles		
•Can use test data to		
rank magnets		
Observe what		
happens to plants		
over time when the		
leaves or roots are		
removed.		
Observe the effect		
of putting cut white		
carnations or celery		
in coloured water.		
Investigate what		
happens to plants		
•when they are put		
in different		
conditions e.g. in		
darkness, in the		
cold, deprived of		



air, different types
of soil, different
fertilisers, varying
amount of space.
Observe flowers
carefully to identify
the pollen.
Observe flowers
being visited by
pollinators e.g. bees
and butterflies in
the summer.
Observe seeds
being blown from
the trees e.g.
sycamore seeds
Research different
types of seed
dispersal.
• Classify seeds in a
range of ways,
including by how
they are dispersed.



ı <u> </u>	
	● Evidence
	opportunities
	Can explain
	observations made
	during
	investigations
	Can look at the
	features of seeds to
	decide on their
	method of dispersal
	• • Can draw and
	label a diagram of
	their created
	flowering plant to
	• show its parts, their
	role and the
	method of
	pollination and
	seed dispersal



	•Know what	◆Children know	Many plants, but		
	plants need	through observing a	not all, have roots,		
	in order to	variety of pictures	stems/trunks,		
	grow –	that things can be	leaves and		
	water, light ,	classified as living,	flowers/blossom.		
	food	dead or never alive.	The roots absorb		
	Know the	To know that a	water and nutrients		
	parts of a	habitat is where an	from the soil and		
	plant,	animal lives and all	anchor the plant in		
	stem,roots,	animals require	place. The stem		
	flower	different habitats to	transports water		
ıts	Know that	survive.	and		
Plants	plants	●Begin to name a	nutrients/minerals		
<u> </u>	spread	variety of plants	around the plant		
	seeds to	and know a range	and holds the		
	reproduce.	of animals and	leaves and flowers		
	Know the	what habitats they	up in the air to		
	difference	have.	enhance		
	between	To know where	photosynthesis,		
	evergreen	animals get their	pollination and		
	and	food from and	seed dispersal. The		
	deciduous	understand that	leaves use sunlight		
	trees.	some animals need	and water to		
		a varied diet.	produce the plant's		
			food. Some plants		



 Know the terms 	produce flowers
omnivore,	which enable the
herbivore and	plant to reproduce.
carnivore and be	Pollen, which is
able to explain and	produced by the
give examples of	male part of the
each	flower, is
◆To know that a seed	transferred to the
grows into a plant	female part of
and recognise that	other flowers
it needs a balance	(pollination). This
of water and	forms seeds,
sunlight.	sometimes
To know that a	contained in berries
predicition is an	or fruits which are
edcuated guess and	then dispersed in
be able to make a	different ways.
sensible prediction	Different plants
based on prior	require different
knowledge.	conditions for
	germination and
	growth





- Know the names of the five senses and the body part associated
- •Know the differences between a bird, mammal,re ptiles, fish, amphibians.
- •Know the names of some insects.
- Know that animals can be carnivores, herbivores or omnivores

- Naming babies including
- Puppy kitten lamb calf gosling snakelet piglet foal tadpole owlet.
- Lifecycle of a frog
- •Lifecycle of a butterfly
- Lifecycle of a sheep
- Lifecycle of a human
- To know basic needs – water, food, air & shelter.
- Know what is in the food groups, dairy, protein, fruit/veg fats sugars.
- Animals, unlike plants which can make their own food, need to eat in order to get the nutrients they need. Food contains a range of different nutrients carbohydrates (including sugars), protein, vitamins, minerals, fats, sugars, water - and fibre that are needed by the body to stay healthy. A piece of food will often provide a
- Humans, and some other animals, have skeletons and muscles which help them move and

range of nutrients.

- •-Know the functions and parts of the digestive system.
- •-Know the function of each organ of the digestive system.
- -Know the types of teeth in humans (canine,pre molars, incisors & molars).
- -Know the function of the types of teeth.
- -Know that our choice of drink can effect our teeth in a negative way.
- To construct a food chain using given criteria e.g. a food chain from the sea.
- To describe the terms producer, consumer, predator and prey?

- Know the stages of a human lifecycle.
- Know the importance of good hygiene.
- Know and describe the main changes of puberty for males and females.
- Know that a period
 (menstruation)
 happens every
 month (once an egg is released) if it is not fertilised by the sperm, a period occurs.
- Know how reproduction happens (a sperm and an egg come together) this is

- Know that the skeleton protects our organs as well as keeping us stable.
- Know that the organs carry out the systems and processes to keep our bodies alive.
- •Know that muscles allow us to move.
- Know the circulatory system is the process of blood, oxygen and nutrients being carried around the body to the heart and muscles.
- Know that the job of the heart is to pump blood around our bodies.



and what	provide protection	•-To describe the	fertilisation, then	•Know that
they eat	and support	terms, carnivore,	a baby is made.	oxygenated blood is
Know what		herbivore and	•Know the different	carried to all parts
a pet needs-		omnivore placing	stages of	of the bodies
water, food,		these in the correct	pregnancy	through arteries. At
home		place in a food	Know that MRS	a muscle the
		chain.	NERG stands for:	oxygen and
			movement,	nutrients pass
			respiration,	through capillaries
			sensitivity,	which pass back
			nutrition, energy,	any waste e.g.
			reproduction,	carbon dioxide.
			growth	Know that veins
				take de-oxygenated
				blood and waste to
				the heart, which is
				then pumped to the
				lungs to become
				oxygenated again.#
				Know there are 4
				chambers in the
				heart, (Left atrium
				and ventricle and
				right atrium and
				ventricle).



1	I	I		
				Know that blood
				vessels include
				veins, arteries and
				capillaries.
				Know that the heart
				is classed as an
				organ but it is a
				muscle.
				 Know that the pulse
				rate is how often
				blood is pumped
				around your body
				and is measured in
				bpm (beats per
				minute)
				 Know that the pulse
				rate is measured by
				counting the pulse
				in 30 seconds and
				doubling it.
				Know that exercise
				increases pulse rate
				because the body
				needs to get oxygen
				quickly to the



	T	I I		
				muscles that are
				being used.
				•Know the 5 main
				food groups:
				protein, dairy,
				carbohydrates,
				fruit/vegetables,
				fats/sugars.
				 Know which types
				of foods are put
				into these
				categories.
				Know that exercise
				is about keeping
				your body fit and
				healthy (not just
				about size)
				 Know that exercise
				causes your
				muscles (including
				heart) to work
				harder.



	Ţ	
	●Know that ex	rercise
	makes you br	reathe
	faster.	
	•Know that mu	uscles
	need to warm	n up so
	they are not	
	stretched too	o far
	and that they	, are
	cooled down	to
	remove excess	SS
	lactic acid wh	nich
	can cause pai	in and
	discomfort.	
	•Know that dru	ugs
	are substance	es
	which have a	n
	effect on the	body
	and its function	ons.
	●Know that dru	ugs
	include medic	cines
	which should	l only
	be given by a	l
	trusted adult.	••
	•Know that so	me
	drugs are illeg	gal as



_	1			
				they have severely
				negative impacts on
				the body (including
				addiction)
				Know that
				cigarettes and
				coffee contain
				drugs.
				Know the short
				term (stained
				fingers and teeth,
				smell of smoke etc.)
				and long term
				effects of smoking
				(lung damage, risk
				of heart disease,
				addiction, chronic
				coughing, change to
				voice)
				Know the short
				term (lack of bodily
				control, memory
				loss, hangover,
				headaches, slurred
				speech, weaker



			vision) and long
			term effects (liver
			damage, addiction,
			strong change in
			behaviour) of
			drinking alcohol.



	•Know the names of common materials, wood, metal, glass,	 To know the names of different materials. To understand the uses of different materials. 		
Everyday materials	•Know which of these	different uses of a variety of materials.		
y mat	materials are	◆To match up a material with a		
'yda'	waterproof. •Know which	variety of objects. •To recognise which		
Evel	of these materials	materials are strong/durable.		
	are suitable for different	•To understand the properties of		
	jobs	different materials.		
		•To know which		
		materials will be most suitable for		
		particular jobs.		



	∙Know			
S	Spring,			
ge	Summer,			
Seasonal changes	Autumn and			
등	Winter and			
Jal	the type of			
SOI	weather.			
ea	Know how			
S	the length			
	of day			
	varies.			



	1	T	
			To know
			vertebra
			inverteb
			- To classi
			woodlar
			inverteb
S			molluscs
tat			insects,
 abi			crustace
عٌ			annelids
ei.			myriapo
Living things and their habitats			●-To be a
<u> </u>			group ve
S			into mar
l B			reptiles,
thi			amphibi
B B			fish.
.≣			●-To be a
-			construc
			branchir
			base to
			vertebra
			•-To desc
		1	1

- •-To know the term vertebrate and invertebrate.
- To classify our woodland invertebrates into molluscs, arachnids, insects, crustaceans, annelids & myriapods.
- To be able to group vertebrates into mammals, reptiles, amphibians, birds & fish.
- To be able to construct a branching data base to classify vertebrates.
- To describe what a habitat has to

- Know what classifies animals:
- mammals (warm blooded/hair/ gives birth to live young
- reptile (dry scaly skin/ lays eggs)
- amphibian (live in both water and land)
- fish (fins/ lives underwater)*birds (warm blooded/ covered in feathers)
- Know that a plant is made up of a: flower, stem, leaf and roots.
- Know that inside a flower, it is made up of: pollen, anther, filaments,

- Know that adaptation is the process of animals changing their bodies over time in order to live in their environment.
- Know that adaptations over generations can become evolution.
- Know living things are separated into plants, animals and micro-organisms.
- Know animals are then separated into vertebrae and invertebrae.
- Know that invertebrae are also classified into groups based on their bodies, legs and shells.



contain to allow an animal to survive.

- To name the different habitats we might find around our school, noting types of animals and how it provides shelter, food & water.
- •-
- To understand how habitats can change negatively or positively.
- to understand how habitats can be effected by humans [litter, chemical pollution, oil spills, deforestation, urban development, global changes,]

sepal, ovule, ovary, style, stigma.

- Know that stamen is male and carpel is female.
- Know that seed dispersal is how more plants are made.
- Know that germination is the development of a plant from a seed.
- Know that pollination is when pollen is moved from a stamen to a stigma to move pollen.
- Know that fertilisation is where pollen moves down the stigma into the

(molluscs, crustaceans, insects and arachnids)

- Know the key characteristic of the 5 animal groups:
- Mammals: give birth to live young, feed milk to their young, have fur, warm blooded
- Reptiles: cold blooded, lay eggs, scales
- Amphibians: live in both water and land, lay eggs.
- Birds: have feathers, not teeth, have a beak, lay eggs, wings (but not all fly)
- Fish: live in water, gills to breathe, lay eggs, scales.



	 To know how palm oil can effect deforestation and loss of habitat for orang-utans. To know some of the products that contain palm oil. 	ovary and makes a seed. •Know that photosynthesis is the process that plants go through to make food by using sunlight and chlorophyll to turn water and carbon dioxide into	•Know there are variations within species of animals and that this is a result of adaptation.
		nutrients.	



	■ Rock is a naturally
	occurring material
	which can be sorted
	into igneous,
	sedimentary or
	metamorphic.
	There are different
	types of rock e.g.
	sandstone,
	limestone, slate,
(0	granite etc. which
ROCKS	have different
Õ	properties. See
	Rocks and soil fact
	sheet to support
	knowledge of
	different rocks.
	Rocks can be hard
	or soft. They have
	different sizes of
	grain or crystal.
	They may absorb
	water. Rocks can be
	different shapes
	and sizes (stones,



T		 	
	pebbles, boulders).		
	Soils are made up		
	of pieces of ground		
	down rock which		
	may be mixed with		
	plant and animal		
	material (organic		
	matter). The type of		
	rock, size of rock		
	pieces and the		
	amount of organic		
	matter affect the		
	property of the soil.		
	Some rocks contain		
	fossils. Fossils were		
	formed millions of		
	years ago. When		
	plants and animals		
	died, they fell to		
	the seabed. They		
	became covered		
	and squashed by		
	other material.		
	Over time the		
	dissolving animal		



	and plant matter is		
	replaced by		
	minerals from the		
	water		



	●We see objects	Know that light
	because our eyes	travels in straight
	can sense light.	lines.
	Dark is the absence	 Know that we see
	of light. We cannot	light because light
	see anything in	travels from a light
	complete darkness.	source and then
	Some objects, for	bounces off an
	example, the sun,	object and into our
	light bulbs and	eyes.
	candles are sources	 Know that light is
□ 도	of light. Objects are	made up of all
LIGHT	easier to see if	colours of the
	there is more light.	spectrum.
	Some surfaces	 Reflection is when
	reflect light. Objects	light bounces off a
	are easier to see	surface in a
	when there is less	different direction
	light if they are	●Rays of light obey
	reflective.	the law of
	●The light from the	reflection: The
	sun can damage our	angle of incidence
	eyes and therefore	(original light beam
	we should not look	from light source)
	directly at the sun	



and can protect our eyes by wearing sunglasses or sunhats in bright light.

•Shadows are formed on a surface

•Shadows are formed on a surface when an opaque or translucent object is between a light source and the surface and blocks some of the light. The size of the shadow depends on the position of the source, object and surface.

always equals the angle of reflection.

- Light is a form of energy that travels in a wave from a source.
- A light source is an object that makes its own light.
- Reflection is when light bounces off a surface, changing the direction of a ray of light.
- An incident ray is a ray of light that hits a surface.
- •A reflected ray is a ray of light that has bounced back after hitting a surface.
- The law of reflection is the law that states that the angle of the



T	T		
			incident ray is equal
			to the angle of the
			reflected ray.
			 We need light to be
			able to see things.
			Light waves travel
			out from sources of
			light in straight
			lines. These lines
			are often called
			rays or beams of
			light.
			Light travels as a
			wave. But unlike
			waves of water or
			sound waves, it
			does not need a
			medium to travel
			through. This
			means light can
			travel through a
			vacuum - a
			completely airless
			space.



		1	
			•Isaac Newton shone
			a light through a
			transparent prism,
			separating out light
			into the colours of
			the rainbow (red,
			orange, yellow,
			green, blue, indigo
			and violet) - the
			colours of the
			spectrum. All the
			colours together
			merge and make
			visible light.
			•A shadow is always
			the same shape as
			the object that
			casts it. This is
			because when an
			opaque object is in
			the path of light
			travelling from a
			light source, it will
			block the light rays
			that hit it, while the



			rest of the light can continue travelling



• Δ force is a nush or	 Know that gravity
-	is a force that
<u> </u>	
_	attracts an object
	to the earth.
of the surface and	Know that air
the object affect	resistance is when
how it moves. It	a force is acting on
may help the object	a moving object.
to move better or it	 ◆Know that friction
may hinder its	is a firce between
movement e.g. ice	two forces.
skater compared to	Know that water
walking on ice in	resistance and
normal shoes.	upthrust are the
●A magnet is any	forces acting upon
object that creates	an object in water.
a magnetic field	◆Know that pulleys,
and it attracts	levers and gears
magnetic material.	allow a smaller
Iron and nickel and	force to have
other materials	greater effect.
containing these,	8. 33.33.
strongest parts of a	
	how it moves. It may help the object to move better or it may hinder its movement e.g. ice skater compared to walking on ice in normal shoes. • A magnet is any object that creates a magnetic field and it attracts magnetic material. Iron and nickel and other materials containing these, e.g. stainless steel, are magnetic. The



magnet are the poles. Magnets have two poles – a north pole and a south pole. If two like poles, e.g. two north poles, are brought together they will push away from each other – repel. If two unlike poles, e.g. a north and south, are brought together	



	T	
		●To observe that
		water as a solid will
		change when left at
		room temperature.
		●-The shape of the
		ice effects how
		quickly it melts.
		•-To be able to
_		group materials
States of matter		into Solids, Liquids
Па		and Gases.
) L		•Understand that
S		
ate		the molecules of
Sta		Solids, liquids and
		Gases are different-
		Solids- Molecules
		closely packed.
		Liquids more fluid
		and move together,
		Gases – not closely
		packed able to
		move freely.



				. Ka suu ula sh		. Ka a tha a luar .
	•	•	•	•-Know what	•	•Know the key
				electricity is and		components of a
				why it is important		cicuit: wires,
				in our lives.		battery and
				•-Know about		something which
				common appliances		will react e,g. light
				that run on		bublb/buzzer/moto
				electricity.		r
				Know how to		Know that a circuit
				construct a simple		must be complete
≥				circuit.		for it to work.
Electricity				•-Name cells, wires,		Know that if an
ct				bulbs, swtiches,		addition battery is
<u> </u>				buzzer.		added then the
				•-Know how to draw		bulb will be brighter
				a pictorial		whereas if an
				representation of		additional bulb is
				the circuit.		added instead they
				•-To understand		will both be
				what a conductor		weaker.
				and imnsulator are		Know that in a
				and know why we		diagram of a circuit,
				need this		wires are drawn as
				knowledge.		straight lines and
				omcapci		other components
						cance components



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- -Know and name some common conductors and insulators.
- To know that the brightness of a lamp or the volume of a buzzer is associated with the number or voltage of cells.
- To recognize that a switch opens and closes a circuit.
- To know that when a switch is open the circuit is incomplete and that a closed switch allows the electricity to flow.
- To understand how a switch works and understand the use of a conductor

- are represented using symbols.
- Know the symbols for: open and closed switches, batteries, bulb, motor, buzzer, amp meter
- •Know that a conductor is a material which allows electricity to flow through e.g. metal. This is why the inside of wires are made of copper it is flexible and a conductor
- Know that insulators are materials which do not allow electiricity to pass thorugh e.g. rubber.



	[metal] inside the	This is why wubber
	switch.	is used on wires
		Know that electicity
		comes from power
		stations (of
		different types),
		travels though
		wires and pylons to
		the grid, then to
		streets and their
		consumer boxes,
		then to a home's
		consumer box then
		spread to the
		different plug
		sockets or lights.



	•	•	•	•	•Know how	•
					compare and	
					group everyday	
					materials based	
					on their	
					properites.	
als					•Know that some	
eri						
Properties and changes of materials					materials will	
<u> </u>					disolve in a liquid	
ō					to form a solution.	
Ses					•Know how to	
] Sug					descibe and	
¦ ç					recover a	
Þ					substance from a	
a					solution.	
es					Know a	
Ţ.					reviersable change	
bde					can be changed.	
Pro					Know a	
_					irrervirasable	
					change cannot be	
					changed.	
					Know how to	
					separate	
					materials.	



|--|



		T	T	T	T	1
	•	•	•	•	Know why the	•
					earth is a sphere.	
					Know that the	
					Earth and planets	
					make up our solar	
					system.	
					•Know a mnemonic	
					to remember the	
					name of each	
9					planet.	
Earth and space					Know that the	
s p					moon orbits the	
an					earth in 28 days.	
Ŧ					Know that the	
är					earth orbits the	
"					sun in 365 days	
					and is takes	
					24hours to spin on	
					its axis.	
					•Know that the sun	
					is the centre of	
					our solar system.	
					•Know the	
					relationship	
					between the sun,	



	moon and earth in both size and distance. •Know that day and night is the cause of the earth rotating round the sun. •Know the moon reflects the sun. •Know that a shadow is formed when a direct light source is blocked by an opaque object.
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	_		1 -		_	. 1/
	•	•	•	•	•	Know that
						evolution is a long-
						term process which
						is a result of
						animals changing to
						adapt to their
4)						habitats of
JC6						generations.
tal						Know that fossils
eri						are the result of a
h						living organisms
ق i-						remains being left
an						over time to be
Evolution and inheritance						mud
L i						Know that offspring
Į						is the term used for
Ē						the results of
						reproduction.
						Understand that
						variation is the
						word used for the
						sligh differences
						that occur between
						siblings or animals



		of the same
		species.
		Know that
		characteristics can
		be classified as
		inherited,
		environmental or
		both.
		●Inherited
		characteristics:
		natural hair colour,
		eye colour, skin
		colour, blood type
		etc.
		 Environmental
		characteristics:
		weight, skills, hair
		colour, religion etc.