Science at James Elliman Academy



Workshop for parents

Welcome

- Introductions
- National Curriculum and statutory requirement
- How we teach science at JEA
- How you can help your child





At James Elliman Academy, we have people who are specifically responsible for the development of science.

Corina Constantinescu – Science Lead



At JEA we aim to teach children a broad and inclusive curriculum that celebrates diversity and reaches out to every child.

We teach science in line with the National Curriculum.

Some science topics are revisited in different year groups and progress according to the children's ages and abilities.



Key stage 1 programme of study – years 1 and 2

Working scientifically

Statutory requirements

During years 1 and 2, pupils should be taught to use the following practical scientific methods, processes and skills through the teaching of the programme of study content:

- asking simple questions and recognising that they can be answered in different ways
- observing closely, using simple equipment
- performing simple tests
- identifying and classifying
- using their observations and ideas to suggest answers to questions
- gathering and recording data to help in answering questions.

Year 1 programme of study

Plants

Statutory requirements

- identify and name a variety of common wild and garden plants, including deciduous and evergreen trees
- identify and describe the basic structure of a variety of common flowering plants, including trees.



Animals, including humans

Statutory requirements

- identify and name a variety of common animals including fish, amphibians, reptiles, birds and mammals
- identify and name a variety of common animals that are carnivores, herbivores and omnivores
- 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.



Everyday materials

Statutory requirements

- distinguish between an object and the material from which it is made
- identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and rock
- describe the simple physical properties of a variety of everyday materials
- compare and group together a variety of everyday materials on the basis of their simple physical properties.



Seasonal changes

Statutory requirements

Pupils should be taught to:

- observe changes across the four seasons
- observe and describe weather associated with the seasons and how day length varies.



REMEMBER: Never look directly at the sun even wearing sunglasses; it will damage your eyes.



Year 2 programme of study

Living things and their habitats

Statutory requirements

- explore and compare the differences between things that are living, dead, and things that have never been alive
- identify that most living things live in habitats to which they are suited and describe how different habitats provide for the basic needs of different kinds of animals and plants, and how they depend on each other
- identify and name a variety of plants and animals in their habitats, including microhabitats
- describe how animals obtain their food from plants and other animals, using the idea of a simple food chain, and identify and name different sources of food.



Plants

Statutory requirements

- observe and describe how seeds and bulbs grow into mature plants
- find out and describe how plants need water, light and a suitable temperature to grow and stay healthy.



Animals, including humans

Statutory requirements

- notice that animals, including humans, have offspring which grow into adults
- 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, eating the right amounts of different types of food, and hygiene.



Uses of everyday materials

Statutory requirements

Pupils should be taught to:

- identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses
- find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching.



Different materials have different properties which make them better suited for certain tasks...





Lower key stage 2 programme of study

Working scientifically

Statutory requirements

During years 3 and 4, pupils should be taught to use the following practical scientific methods, processes and skills through the teaching of the programme of study content:

- asking relevant questions and using different types of scientific enquiries to answer them
- setting up simple practical enquiries, comparative and fair tests
- making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers
- gathering, recording, classifying and presenting data in a variety of ways to help in answering questions
- recording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables
- reporting on findings from enquiries, including oral and written explanations, displays
 or presentations of results and conclusions
- using results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions
- identifying differences, similarities or changes related to simple scientific ideas and processes
- using straightforward scientific evidence to answer questions or to support their findings.

Year 3 programme of study

Plants

Statutory requirements

- identify and describe the functions of different parts of flowering plants: 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 they vary from plant to plant
- investigate the way in which water is transported within plants
- explore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal.



Animals, including humans

Statutory requirements

Pupils should be taught to:

- identify that animals, including humans, need the right types and amount of nutrition, and that they cannot make their own food; they get nutrition from what they eat
- identify that humans and some other animals have skeletons and muscles for support, protection and movement.

ANIMALS, Ingluding Humans

Animals, including humans, need to eat to get all the energy and nutrients they need







(these are the main source of energy for our bodies) (are stored by the body for (build and repair body energy and provide a layer tissue – muscles, organs of fat for warmth) and immune system) (keep our bodies working and growing properly and help to fight off infections)



Rocks

Statutory requirements

- 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.



Light

Statutory requirements

- recognise that they need light in order to see things and that dark is the absence of light
- notice that light is reflected from surfaces
- 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.



Forces and magnets

Statutory requirements

- 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 magnets attract or repel each other and attract some materials and not others
- compare and group together a variety of everyday materials on the basis of whether they are attracted to a magnet, and identify some magnetic materials
- describe magnets as having two poles
- predict whether two magnets will attract or repel each other, depending on which poles are facing.





Year 4 programme of study

Living things and their habitats

Statutory requirements

- recognise that living things can be grouped in a variety of ways
- explore and use classification keys to help group, identify and name a variety of living things in their local and wider environment
- recognise that environments can change and that this can sometimes pose dangers to living things.

Animals, including humans

Statutory requirements

Pupils should be taught to:

- describe the simple functions of the basic parts of the 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.

ARIMALS, DICLUDING HUMANS The Digestive System The digestive system is responsible for obtaining energy and nutrients from the food we eat



States of matter

Statutory requirements

- compare and group materials together, according to whether they are solids, liquids or gases
- observe that some materials change state when they are heated or cooled, and measure or research the temperature at which this happens in degrees Celsius (°C)
- identify the part played by evaporation and condensation in the water cycle and associate the rate of evaporation with temperature.



Sound

Statutory requirements

- identify how sounds are made, associating some of them with something vibrating
- recognise that vibrations from sounds travel through a medium to the ear
- find patterns between the pitch of a sound and features of the object that produced it
- find patterns between the volume of a sound and the strength of the vibrations that produced it
- recognise that sounds get fainter as the distance from the sound source increases.



Electricity

Statutory requirements

- identify common appliances that run on electricity
- construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers
- identify whether or not a lamp will light in a simple series circuit, based on whether or not the lamp is part of a complete loop with a battery
- 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.





Upper key stage 2 programme of study

Working scientifically

Statutory requirements

During years 5 and 6, pupils should be taught to use the following practical scientific methods, processes and skills through the teaching of the programme of study content:

- planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary
- taking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate
- recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs
- using test results to make predictions to set up further comparative and fair tests
- reporting and presenting findings from enquiries, including conclusions, causal relationships and explanations of and degree of trust in results, in oral and written forms such as displays and other presentations
- identifying scientific evidence that has been used to support or refute ideas or arguments.

Year 5 programme of study

Living things and their habitats

Statutory requirements

- describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird
- describe the life process of reproduction in some plants and animals.

Animals, including humans

Statutory requirements

Pupils should be taught to:

describe the changes as humans develop to old age.

Properties and changes of materials

Statutory requirements

- compare and group together everyday materials on the basis of their properties, including their hardness, solubility, transparency, conductivity (electrical and thermal), and response to magnets
- know that some materials will dissolve in liquid to form a solution, and describe how to recover a substance from a solution
- use knowledge of solids, liquids and gases to decide how mixtures might be separated, 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 state are reversible changes
- 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 soda.

Earth and space

Statutory requirements

- 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.

Forces

Statutory requirements

- 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 and friction, that act between moving surfaces
- recognise that some mechanisms, including levers, pulleys and gears, allow a smaller force to have a greater effect.



Year 6 programme of study

Living things and their habitats

Statutory requirements

- describe how living things are classified into broad groups according to common observable characteristics and based on similarities and differences, including microorganisms, plants and animals
- give reasons for classifying plants and animals based on specific characteristics.

Most plants grow flower that then produce seeds		Participantes of cames to
These are called		There are called
e.f.See	A DOWN WHEN DWA	A CONTRACT A STREET AND FORMERING plants
75	and these	MARITATS 🌶
Because there are	to many different living things, it is useful	I to sort them into groups based on their characteristic
	Vertebrates	Invertebrates
(12)	Réammais Ho	Insects
-there a	e over 5000 deferent species of mammal	
- can adjust body t	emperature to their surroundings (warm blodde	
- most give birth to	live young that look like small versions of paren	the Insects have an exoskeleton on the outside of their
+ all has	e hale of due (sometames it is not scuble)	bodies that protect them. They have three parts - the
- all female manimal	feed their young milk produced in mammary gl	ands head, thoras (middle) and abdomen (end).
-all mammals (er	en aquatic manufilis) have longs and breathe ai	Insects have six legs and two antennae. They hatch
There a	re three main types of mammal 🥔	from eggs and go through a metamorphosis.
Discantal	Marcunial Monotres	Some, but not all, insects have wings
Placental	marsupiar monourer	Arachaldo W
worth fed from as and	and Genderveloped and Reight Bay every rather than	the Poll and it in the
called the placenta	developing in a pouch birth to live your	All anachrids have an exoskeleton. They have two parts
		hatch from easy. They do not no through a metamorphosi
	Clain	and their young lock like small versions of the parent
Margare . there	are almost 28,000 known species of fails	A contract to the
- can't adjust both	temperature to their surroundings icold bloods	Castropods
- most fish spe	cies lay eggs that are then fertilised externally	This group includes slugs and snails, but most other
-62	e scales, fins and streamlined bodies	gastropods live in water. They have a head foot on which
- have gills that e	stract anygen from the water (do not have lung)	they move and some gastropods have a shell. They have
- most fish an	e bony fish and have a skeleton made of bone 🤞	tentacles on the head where the eyes are situated
- cartilaginous	fish have a flexible bone-like skeleton (cartilage)	C Annelids
		This group includes worms and leeches. They have no legs
	Raptiles 1	no skeleton and their bodies are in segments (small rings)
+there	are over 10,000 known species of reptile	Micro-Organisms
- can't adjust body	temperature to their surroundings (cold bloods	nd) Micro-organisms are so small they can only be seen with a
- most reptile	s lay eggs that have been fertilised internally	microscope. They are in the air, water and inside our body
Part - young us	any look like awall versions of the parent(s)	Ramaria T
	nave scales and breadles using surgs	A Battach can be and at hid. Some battach can cause
· Can be automat	ord into: crocoditaria, angles, scands and tercer	Illegans or food polyoning, incurrent are harming
-+	100 B 1 B 1 B 1 B 1 B 1 B 1 B 1 B 1 B 1	and can be very helpful. It is used to make voghurt and
lint	Birds	cheese, and bacteria in our bodies aid the digestion of foo
· · there are	thought to be about 18,000 species of birds	Viruses 🕰
- can adjust body t	emperature to their serroundings (warm blood	Viruses are incredibly small and some scientists don't even
all pira spec	et my eggrader name been tertinged internaty	consider them to be living. They can infect plants and
A logic seats,	reachers, oreacher using hungs and most can try	animals and make them sick. We rely on our immune
-Duer half o	f bird sporter are basedines (nerrhing hirds)	systems to fight off viewses (anti-biotics won't help)
		🖉 🥬 Fungi 🚳
A.	Americk Holene	Not all fungi are microscopic - you can see mushrooms.
-	Prinprinpians	mould and mildew. Fungi feed on all kinds of materials -
- there ar	e over 7,000 known species of amphibians	wood, leaves, food, clothes, animals, plants and lots more.
ton taquel boo	in writer this are then fartified external	Like bacteria it can be either good or bad.
- have watch	and feat and moist this ino protective trained	Some mushrooms are poisonous (never eat one you find in
10 Con	life in the water using pills to breathe	the woods), some fungi (like mould) can make you sick and
most amphibia	ns go through a big change called metamorphosi	some can cause skin infections (athlete's foot).
	and the second	mowever, a hungus (press) is used to make bread rise. Fung
- they live their add	it are on land, brouthing though lungs and their i	hale to decompose opposed another AMD come I and come
- they live their add - Can be subdivid	it are on fand, broathing though lungs and their ed into frogs & toads; salamanders and caeciliar	help to decompose organic matter AND some fungi are use

Animals including humans

Statutory requirements

- identify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and blood
- recognise the impact of diet, exercise, drugs and lifestyle on the way their bodies function
- describe the ways in which nutrients and water are transported within animals, including humans.



Evolution and inheritance

Statutory requirements

- 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.

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Light

Statutory requirements

- recognise that light appears to travel in straight lines
- use the idea that light travels in straight lines to explain that objects are seen because they 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.

То	Topic Light Voor C				Strand: Dhysics
Topic: Light Year: 6		-	Strand: Physics		
What should I already know? • Certain things produce light, usually by burning (e.g. the Sun) or electricity (e.g. street lights) • Shiny materials do not make light but do reflect it. • Shadows are caused when certain materials block light. • Light travels in straight lines. When light is blocked by an opaque object, a dark shadow is formed. • The further away the light source is, the smaller the shad- ow is. The closer the source of the light, the bigger the shadow.		What happens when light is reflected from diffe surfaces? What happens when light is reflected a mirror? What happens when light is reflected a mirror? What happens when the angle of the (or light source changes?) Draw diagrams to show how we see . Draw diagrams to show how we see. Design an experiment to measure shadow lengt changing a variable. Show your results in a lineg to show the relationship between distance of highting a series of the sector of the se		Investigater: Investigater: What happens when light is reflected from What happens when the angle of the mir when light is reflected from a mirror. rams to show how light travels and what when light is reflected from a mirror. rams to show how we see. experiment to measure shadow length is a wriable. Show your results in a line grap he relationship between distance of light	
w	hat will I know by th	e end of the unit?	L	using scien	a shabow length. Explain your findings htific vocabulary.
How does light travel? What is the relationship between light sources and shadows?	Light travels in a When you place room, the beam Reflection is whi face - this chang the light travels. Because light tra there is an opaq a shadow is form Objects that cast	straight line. a torch on a table in a dark travels in a straight line. en light bounces off a sur- es the direction in which wels in straight lines, when ue object blocking the light, ned. have the same shape as the them. Bous allight		Create shi to demom the object Make a pr diagrams Iight appe how it wo Research (e.g. reary explain wi Explore di Including coloured i	adow puppets to show how light travels, strate that a shadow has the same shap it that casts them. eriscope and explain how it works using and scientific vocabulary. Use the idea th ars to travel in straight lines to explain risk. how mirrors, are used in different context view mirrors, on a dangerous hend and by and how they work. Ifferent contexts in which light travels rainbows, colours on scap bubbles and liters.
	The size of a shadow changes as the liable	Nays of ngin	L		Vocabulary
			L	angle	something
			L	dark	the absence of light
		Shadow	Shadow	dim	light that is not bright
		dow changes as the light		electricity	a form of energy that can be carried by wires and is used for heating and lighti and to provide power for machines
	source moves.		L	emits	to emit a sound or light means to prod
		Manuferration in the local division in the	L	light	a brightness that lets you see things.
				mirror	a flat piece of glass which reflects light that when you lookat it you can see yourself reflected in it
			I	opaque	If an object or substance is opaque, you cannot see through it
	LARGE SHADOW when the toy is	SMALLER TINY SHADOW HADOW when the oy is further from long way from the		reflects	sent back from the surface and not pas through it
How do we	close to the ng/t	the light light		shadows	a dark shape on a surface that is made when something stands between a ligh and the surface
see?		-	L	source	where something comes from
	₩ _			surface	the flat top part of something or the outside of it
	Light travels in a straight line	The ray of light is relected off the apple		torches	a small electric light which is powered batteries and which you can carry
	and hits the apple.	and travels in a straight line to the eye allowing it to see	I	translucent	if a material is translucant, some light pass through it
		the apple.		transparent	If an object or substance is transparent you can see through it

Electricity

Statutory requirements

- associate the brightness of a lamp or the volume of a buzzer with the number and voltage of cells used in the circuit
- compare and give reasons for variations in how components function, including the brightness of bulbs, the loudness of buzzers and the on/off position of switches
- use recognised symbols when representing a simple circuit in a diagram.



Progression of Animals including humans

S	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
S olore the ural world und them, king servations d drawing tures of mals and nts	Year 1 Identify and name a variety of common animals including fish, amphibians, reptiles, birds and mammals Identify and name a variety of common animals that are carnivores, herbivores and omnivores Describe and compare the structure of a variety of	Year 2 Notice that animals, including humans, have offspring, which grow into adults Find out about and describe the basic needs of animals, including humans, for survival (water, food and air)	Year 3 Identify that animals, including humans, need the right types and amount of nutrition, and that they cannot make their own food; they get nutrition from what they eat Identify that humans and some other	Year 4 Describe the simple functions of the basic parts of the digestive system in humans Identify the different types of teeth in humans and their simple functions Construct and	Year 5 Describe the changes as humans develop to old age Describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird (Y5 - Living things and their habitats)	Year 6 Identify and name the main part of the human circulatory system and describe the functions of the heart, blood vessels and blood Recognise the impact of diet, exercise, drugs and lifestyle or the way their bodies function Describe the ways in which nutrients and water are transported within animals, including humans
	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	Describe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene	animals have skeletons and muscles for support, protection and movement	interpret a variety of food chains, identifying producers, predators and prey	Describe the life process of reproduction in some plants and animals. (Y5 - Living things and their habitats)	classified into broad groups according to common observa characteristics and based on similarities and differences, including microorganisms, plan and animals (Y6 - Living things and their habitats) Give reasons for classifying

associated with each sense

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able nts

plants and animals based on specific characteristics (Y6 -Living things and their habitats)

Progression of Skills - Working Scientifically

Working scientifically During years 1 and 2, pupils should be:

asking simple questions and recognising that they can be answered in different ways

observing closely, using simple equipment

performing simple tests identifying and classifying using their observations and ideas to suggest answers to questions

gathering and recording data to help in answering questions Working scientifically During years 3 and 4, pupils should be:

asking relevant questions and using different types of scientific enquiries to answer them setting up simple practical enquiries, comparative and fair tests

making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers

gathering, recording, classifying and presenting data in a variety of ways to help in answering questions

recording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables

reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions

using results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions identifying differences, similarities or changes related to simple scientific ideas and processes

using straightforward scientific evidence to answer questions or to support their findings.

Working scientifically During years 5 and 6, pupils should be :

planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary

taking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate

recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs using test results to make predictions to set up further comparative and fair tests

reporting and presenting findings from enquiries, including conclusions, causal relationships and explanations of and a degree of trust in results, in oral and written forms such as displays and other presentations

identifying scientific evidence that has been used to support or refute ideas or arguments

The Science schemes





The Science Collins Books



The Science Wall







Our Children at work,











and book samples.









Buttercup Daisy Stinging Nettle Rose Poppy Dandelion Pansy Cow Parsley Dock





KS1













KS2



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A) They have have on they legs ach is helperilles



For example: Jellyfish Snails and starfish



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Handbarg 2007 Mark 2008 Her Consistence Internet Management Consistence the process of reproduction in manmals. Considerative different types of manufall. Considerative different types of manufall.	tie (grie of a Physics the jorale has her grow in a red
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Life Cycle of a Rabbit	The your phatypic
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2. Campalisian hervicen Homo veardaritakur. and Hursai Simalaritiek- Both the Haro Neardathakur and Huran Walk in two jegs.
Differences-The hips for Home Neuhalthanss is larger than huridi hips.

Assessment

Quiz – plants

1. Sort the images into the correct groups. (Matching groups)





• Plants:

Not plants:

2. Which of these plants do people often eat? (Multiple choice)





. What part of the plant absorbs nutrients from the soil, and supports the plant? (Multiple choice)

flower
roots
leaf



4. Add the labels to the plant. (Labelling quiz)



Science Standards Grid: Year 1			the Park
Pupil's Name & Class			Tederalans
Working Towards the Expected Standard (WTS): 1w Working at the Expected Standard (EXS): 1S Working at Greater Depth Within the Expected Standard (GDS): 1S+			
Plants		Standard	
	(WT) 1w	(EXP) 1s	(GD) 1s+
I can identify and name a variety of common wild and garden plants, including deciduous and evergreen trees.			
I can identify and describe the basic structure of a variety of common flowering plants, including trees.			
Animals including humans	(WT) 1w	Standard (EXP) 1s	(GD) 1s+
I can identify and name a variety of common animals including fish, amphibians, reptiles, birds, mammals.	(,	((,
I can identify and name a variety of animals that are carnivores, herbivores and omnivores.			
I can describe and compare the structure of a variety of common animals (fish, amphibians, reptiles, birds and mammals, including pets)			
I can identify, name, draw and label the basic parts of the human body and say which part of the body is associated with each sense.			
Materials	04/7) 100	Standard	(60) 144
I can distinguish between an object and the material from which it is made.	(WI) IW	(EAP) 15	(GD) 134
I can identify and name a variety of everyday materials, including wood, plastic, glass, metal, water and rock.			
I can describe the simple physical properties of a variety of everyday materials			
I can compare and group together a variety of everyday materials on the basis of their simple physical properties.			
Seasonal changes	(WT) 1w	Satudard (EXP) 1s	(GD) 1s+
I can observe changes across the four seasons.	(,	((,
I can observe and describe weather associated with the seasons and how day length varies.			
Working Scientifically	Standard		
	(WT) 1w	(EXP) 1s	(GD) 1s+
I can ask simple questions and recognise that they can be answered in different ways			
I can observe closely, using simple equipment.			
I can perform simple tests.			
I can identify and classify.			
I can use the observations and my ideas to suggest answers to questions.			
I can gather and record data to help in answering questions.			

Science - Aninals including humans 5 Date Mill Di 224 La Can't describe the impenance of services na an on paiding 1 : i and describe the impenance of services na an on the describe in the services 2 : i and describe the impenance of services na an on the describe in the services 3 : i and describe the impenance of services na an on the describe in the services 3 : i and describe the impenance of services na an on the describe in the services 3 : i and describe the impenance of services name I : i and describe the impenance of services 1 : i and describe intervices I : i and describe the impenance of services I : i and describe intervices I : i an describe i			
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Image: Stand according to their restores and up and according to the according to the second according to the second according to the according to the according to the according to the second according to the according to the according to the according to the second according to the second according to the accordi	LQ: Can I describe the importance of exc	ercise to stay healthy?	
Image: of sears after sectors 72 20 Jumps 72 20 Jumps 72 20 Jumps 74 20 Jumps 75 20 Jumps 76 20 Jumps 77 20 Jumps 78 20 Jumps 79 20 Jumps 70 20 Jumps 71 20 Jumps 72 20 Jumps 74 20 Jumps 75 20 Jumps 76 20 Jumps 77 20 Jumps 78 20 Jumps 79 heave the way and the second and secon	 I can describe the effects that exer I understand that exercise is good f I can laentify some of the specific mican record my findings in a simple 	clae nas or my body For us and what nappens if humai ways that it helps us e chan	na da not exercise
72 2000000000000000000000000000000000000	Number of beats before exercise	Execuse	Number of beats after exercise
What did I find out? Better Autorities Better Autorities Better Autorities Martine Autorities Marten Autorities	72	20 jumps	90
Det over the output of the provided of the prov	What did I find out?	ercise it	LIGS Hinger
Green Fink Pink Plants - What do plants researed on the same of the plant they will be the same do be same to be sa	Wy heavtbeat was	vighev.	Monday 5th Jone 9193
Pink Pink Pink Pink Plants - What do plants need to que Plants - Plants	Green		Rilan I for an weekspher? [2] Lan I whether marships in how compared forman. Fleethily Investigation (Rilan I dan so investigation to ordestand variabless in how composeds findles Question-Dece ware length affect how composeds in a exact so Prediction-I believe the wire length will affect be bet
Plants - What do plants need to que Can I identify and describe seeds and bulbs? SC: 1. Ican group seeds according to their features and explain my choice. 2. Income the plant they will 3. Ican draw the seeds and bulbs and label them with the name of the plant they will 3. Ican draw the seeds and bulbs and label them with the name of the plant they will	Pink		In main institution, I will change the length of the wire, meaning the backness of the birth, and I will keep the both, the cells and the switch the same. Equipment: • hills • butter. • wires (dow) • switch • wires (dow)
 Sc: 1. Ican group seeds according to their features and explain my choice. 2. Ican draw the seeds and bulbs and label them with the name of the plant they will 	Plants - What d	o plants need to gran	2 Then discound the wires and replace then with longer was
grow into. Lean differentiate between fruits, nuts, and seeds.	 Can I identify and describe second second	their features and explain r ; and label them with the na uits, nuts, and seeds.	ny choice. ame of the plant they will

Science trips, science week, outdoor learning







Homework

KS1 Science: Habitats and food chains - mixed up food chains

Use this real life picture cut and stick activity to support the learning of food chains in KS1. This download also includes a food web to encourage greater depth pupils to consider their future learning. It complements our book 'Habitats and Food Chains' from our <u>FUNdamental</u> Science series. For more information, downloads and to purchase our books, please visit <u>www.rubytuesdaybooks.com</u>

This download helps meet the following National Curriculum targets:

Year 2 Science: Living things and their habitats

Statutory requirements:

Identify that most living things live in habitats to which they are suited and describe how different habitats provide for the basic needs of different kinds of animals and plants,

anyhow they depend on each other.

Describe how animals obtain their food from plants and other animals, using the idea of a simple food chain, and identify and name different sources of food.



Year 2 Food Chains project for science week

For the Science Week, every child in Yr2 will have to prepare a science project about food chains. Please complete this and submit by 14th June 2023.

Below you can find a few examples to inspire you. Have fun!

Diorama:





Finger puppets from felt or paper:



Poster:









Others:



You can be creative and make your own in a different way. What other ideas could you have?

Useful websites to help at home.



https://explorify.uk/en/activities?search





https://energisingfutures.co.uk/levels/primaryresources/





https://www.bbc.co.uk/bitesize/subjects/zq26n39



What does the heart do?

How do humans breathe?