Science

What are the Key features of 'Knowledge-rich assessment for Science?

At both key stages the sticky knowledge takes full account of the national curriculum's main characteristics of:

- Physics
- Chemistry
- Biology
- Working scientifically
- There are more assessments in science because the national curriculum specifies on a year-by-year basis what has to be taught. In addition, science is a core subject and should have more time devoted to it than non-core subjects
- The working scientifically part does not conform with the knowledge- rich system as it is checking on pupils' ability to, amongst other things, carry out research, ask questions and carry out tests.
- The working scientifically statements should be assessed as an on-going feature of the science lessons, whilst the scientific knowledge should be assessed away from the point of teaching.
- When considering pupils' improvement in science specific vocabulary, provide pupils with a vocabulary mat which contains all words used for art for their age group.

	Science: Key Stage 1						
	Year 1						
	Working S	cientifically					
Observing Closely	Performing Tests	Identifying and Classifying	Recording Findings				
•observing closely, using simple equipment	•performing simple tests	 identifying and classifying using their observations and ideas to suggest answers to questions 	 asking simple questions and recognising that they can be answered in different ways gathering and recording data to help in answering questions. 				
Can they talk about what they see, touch, smell, hear or taste?	Can they perform a simple test? Can they tell other people about what they	Can they identify and classify things they observe?	Can they show their work using pictures, labels and captions?				
Can they use simple equipment to help them make observations?	have done?	Can they think of some questions to ask? Can they answer some scientific questions? Can they give a simple reason for their answers?	Can they record their findings using standard units? Can they put some information in a chart or table?				

	Can they explain what they have found out?			
	Biology		Chemistry	Physics
Animals, including humans	Animals, including humans	Plants	Everyday Materials	Seasonal Change
•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 (Year 1 Spring 2)	ond name a variety of animals including fish, animals including fish, animals (fish, amphibians, reptiles, birds and mammals including pets) animals that are oidentify, name, draw and label the basic parts of the human body and say which part of the body is associated with each sense		• 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 (Year 1 Autumn 1) (Year 1 Autumn 2)	• observe changes across the 4 seasons • observe and describe weather associated with the seasons and how day length varies (Year 1 Spring 1)
Can they point out some of the differences between different animals?	Can they name the parts of the human body that they can see?	Can they name the petals, stem, leaf and root of a plant?	Can they describe materials using their senses?	Can they identify and name the sources of light that we can see?
Can they sort photographs of living and non-living things?	Can they identify the main parts of the human body and link them to their senses?	Can they identify and name a range of common plants and trees?	Can they describe materials using their senses, using specific scientific words?	Can they explain what darkness is? Can they observe and describe
Can they classify common animals such as birds, fish, amphibians, reptiles, mammals and	Can they name the parts of an animal's body?	Can they recognise deciduous and evergreen trees?	Can they explain what material objects are made from?	shadows during the day? Can they describe characteristics
invertebrates? Can they describe how an animal is suited to its environment?	Can they name a range of domestic animals?	Can they describe the parts of a plant including the roots, stem, leaves and flowers?	Can they explain why a material might be useful for a specific job.	of the different seasons and how they change through the year?
Can they sort some animals by body covering, e.g. scales, fur and	Can they classify animals by what they eat using the terms carnivore, herbivore, omnivore?	Can they sort some plants by size?	Can they name some different materials?	
skin?			Can they sort materials into groups by a given criterion?	

		y compare the bodies of t animals?			Can they explain how solid can be changed by squashi bending, twisting and stret	ng,	
	<u>'</u>			ar 2			
Observing Closely		Porforming 7		cientifically	og and Classifying		Pocarding Findings
observing closely, using simple equ	3		Coto	• identifying and Classifying • identifying and classifying • using their observations and ideas to suggest answers to questions		Recording Findings •asking simple questions and recognising that they can be answered in different ways •gathering and recording data to help in answering questions.	
Can they use touch, smell, hear or to help them answer questions? Can they use some science words to describe what they have seen and measured? Can they compare several things?		Can they carry out a simple fair test? Can they explain why it might not be fair to compare two things? Can they say whether things happened as they expected? Can they suggest how to find things out? Can they use prompts to find things out?		Can they organise things into groups? Can they find simple patterns or associations? Can they identify animals and plants by a specific criteria, e.g. lay eggs or not, have feathers or not?		charts, t	y use text, diagrams, pictures, cables to record their observations? y measure using simple equipment?
		Biology			Chemistry		Physics
Living things and their habitats	Anir	nals, including humans	Pla	ints	Uses of everyday mate	rials	
•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	humans grow int •find ou basic ne	that animals, including , have offspring which to adults It about and describe the eds of animals, including , for survival (water, food	•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				

habitats provide for the basic	•describe the importance for	(Year 2 Summer 2)	can be changed by squashing,	
needs of different kinds of animals	humans of exercise, eating the	(rear 2 dammer 2)	bending, twisting and stretching	
and plants, and how they depend	right amounts of different types of		benamy, evisting and stretching	
on each other	food, and hygiene		(Year 2 Autumn 2)	
•identify and name a variety of	Jood, and Hygiene		(1001 2 / 1000 111 2)	
plants and animals in their	(Year 2 Spring 1)			
habitats, including microhabitats	(Year 2 Spring 2)			
•describe how animals obtain	(1001 2001118 2)			
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 Summer 1)				
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Can they match certain living	Can they describe what animals	Can they describe what plants	Can they distinguish between an	
things to the habitats they are	needs to survive?	need to survive?	object and the material from	
found in?			which it is made?	
	Can they explain that animals	Can they describe how seeds and		
Can they explain the differences	grow and reproduce?	bulbs grow into plants?	Can they identify and name a	
between living and non-living			range of everyday materials such	
things?	Can they explain why animals	Can they describe what a plant	as wood, plastic, metal, water and	
	have offspring?	needs to grow and stay healthy?	rock?	
Can they sort living things into				
groups and say why they sorted	Can they describe the lifecycle of	Can they explain that plants grow	Can they describe the simple the	
them in that way?	some living things? e.g. egg, chick,	and reproduce?	simple physical properties of a	
	chicken.		variety of everyday materials?	
Can they describe some of the life		Can they compare how plants		
processes common to plants and	Can they explain the basic needs	grow in different conditions by	Can they compare and classify a	
animals, including humans?	of animals, including humans?	making measurements?	variety of materials based on their	
			simple physical properties?	
Can they decide whether	Can they describe why exercise			
something is living, dead or non-	and a balanced diet are important		Can they explore how the shapes	
living?	for humans?		of solid objects can be changed	
			through squashing, bending,	
Can they describe how a habitat	Can they explain how animals get		twisting and stretching?	
provides for the basic needs of	their food and draw a simple food			
things living there?	chain?		Can they find out about people	
			who developed new materials like	
			John Boyd Dunlop, Charles	

Can they describe a range of different habitats?		Macintosh and John Loudon McAdam?	
Can they describe how plants and animals are suited to their habitat? Can they identify and compare a variety of plants and animals found in different habitats and microhabitats?		Can they identify and compare the uses of a range of everyday materials such as: Wood, metal, plastic, glass, brick, rock, paper, cardboard. Can they explain how things move on different surfaces?	
Can they collect weather data about a local habitat and use it to explain the plants and animals they will find there?			

Science: Key Stage 2				
	Year 3			
	Working Scientifically			
Planning	Obtaining and Presenting Evidence	Considering Evidence and Evaluating		
 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.	
Can they use different ideas and sugges how to find something out? Can they make and record a prediction before testing? Can they plan a fair test and explain w was fair? Can they set up a simple fair test to make comparisons? Can they explain why they need to colinformation to answer a question?	Can they record their ob Can they describe what a hy it Can they make accurate ake	Can they measure using different equipment and units of measure? Can they record their observations in different ways? (labelled diagrams, charts etc). Can they describe what they have found using scientific words? Can they make accurate measurements using standard units?		Can they explain what they have found out and use their measurements to say whether it helps to answer their question? Can they use a range of equipment (including a data logger) in a simple test?	
	Biology			Physics	
Rocks	Animals, including humans	Plants	Forces & Magnets	Light	
 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 (Year 3 Autumn 2) (Year 3 Spring 1) 	•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 (Year 3 Autumn 1)	 •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 (Year 3 Summer 2) 	•compare how things move of different surfaces •notice that some forces need contact between 2 objects, by magnetic forces can act at a distance •observe how magnets attrasome materials and not other ecompare and group togethed variety of everyday materials the basis of whether they are attracted to a magnet, and identify some magnetic materials •describe magnets as having	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	

			•predict whether 2 is attract or repel each depending on which facing	other,	
			(Year 3 Spring 2)		
Can they compare and group together different rocks based on their simple physical properties? Can they describe and explain how different rocks can be useful to us? Can they describe and explain the differences between sedimentary and igneous rocks, considering the way they are formed? Can they describe how fossils are formed within sedimentary rocks?	er different rocks based on mple physical properties? balanced diet? can they describe how nutrients, water and oxygen are transported within animals and humans? can they describe and explain the nces between sedimentary neous rocks, considering the ey are formed? can they describe and explain the the skeletal system of a human?		Can they observe the forces can be trans without direct continued to the c	mitted act? thow some repel each hich cted to he speed	Can they explain the difference between transparent, translucent and opaque? Can they compare the brightness and colour of lights? Can they explain how bulbs work in an electrical circuit? Can they explain how shadows are formed?
		Year 4			
		Working Scientifically			
• asking relevant questions and using different types of scientific enquiries to answer them		• making systematic and careful observations and, where appropriate, taking accurate measurements using standard units,		 Considering Evidence and Evaluating reporting on findings from enquiries, including oral and written explanations, 	
•setting up simple practical enquiries, comparative and fair tests		sing a range of equipment, including thermometers and data ggers gathering, recording, classifying and presenting data in a variety f ways to help in answering questions recording findings using simple scientific language, drawings, belled diagrams, keys, bar charts, and tables		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.
Can they set up a simple fair test to make comparisons?	Can they make measurements using different of units of measure and record what they have fo	
Can they plan a fair test and isolate variables and explain why it	ways?	
was fair and explain which variables have been isolated?	Can they make accurate measurements using s	Can they make a prediction based on
Can they suggest improvements and predictions?	Can they make accurate measurements using s	tandard units? something they have found out?
, 35	Can they explain their findings in different way	can they record and present what they have
Can they decide which information needs to be collected and decide which is the best way for collecting it?	presentation, writing)?	found using scientific language, drawings, labelled diagrams, bar charts and tables?
Can they use their findings to draw a simple conclusion?		
Riology	Chemistry	Physics

Biolog	у	Chemistry	Physics	
Living things & their habitats	Animals, including humans	States of Matter	Electricity	Sound
•recognise that living things can be	•describe the simple functions	•compare and group materials	•identify common appliances	•identify how sounds are made,
grouped in a variety of ways	of the basic parts of the	together, according to whether they	that run on electricity	associating some of them with
 explore and use classification keys 	digestive system in humans	are solids, liquids or gases	construct a simple series	something vibrating
to help group, identify and name a	•identify the different types of	•observe that some materials change	electrical circuit, identifying and	•recognise that vibrations from
variety of living things in their local	teeth in humans and their	state when they are heated or cooled,	naming its basic parts,	sounds travel through a medium
and wider environment	simple functions	and measure or research the	including cells, wires, bulbs,	to the ear
 recognise that environments can 	•construct and interpret a	temperature at which this happens in	switches and buzzers	•find patterns between the pitch
change and that this can sometimes	variety of food chains,	degrees Celsius (°C)	●identify whether or not a lamp	of a sound and features of the
pose dangers to living things	identifying producers,	 •identify the part played by 	will light in a simple series	object that produced it
	predators and prey	evaporation and condensation in the	circuit, based on whether or not	•find patterns between the
(Year 4 Summer 1)		water cycle and associate the rate of	the lamp is part of a complete	volume of a sound and the
	(Year 4 Spring 2)	evaporation with temperature	loop with a battery	strength of the vibrations that
			•recognise that a switch opens	produced it
		(Year 4 Autumn 1)	and closes a circuit and	•recognise that sounds get fainter
		(Year 4 Autumn 2)	associate this with whether or	as the distance from the sound
			not a lamp lights in a simple	source increases
			series circuit	
				(Year 4 Spring 1)

		Year 5 Working Scientifically		
can change and this can sometimes pose a danger to living things?	food chain shows?	evaporation and condensation has in the water cycle?	Can they recognise some common conductors and insulators?	to sound as it travels away from its source? Can they explain how you could change the pitch of a sound? Can they investigate how different materials can affect the pitch and volume of sounds?
group a variety of living things? (plants, vertebrates, invertebrates? Can they compare the classification of common plants and animals to living things found in other places? (under the sea, prehistoric) Can they name and group a variety of living things based on feeding patterns? (producer, consumer, predator, prey, herbivore, carnivore, omnivore). Do they recognise that environments	the basic parts of the human digestive system? Can they describe the function of the organs of the human digestive system? Can they identify the simple function of different types of human teeth? Can they compare the teeth of herbivores and carnivores? Can they explain what a simple	materials based on their states of matter, i.e. liquid, solid or gas? Can they explain what happens to materials when they are heated or cooled? Can they measure the temperature at which different materials change state? Can they use measurements to explain changes to the state of water? Can they explain the part that	is useful to us? Can they construct a simple circuit? Can they explain what a conductor is and test materials for conductivity? Can they explain closed and open circuits? Can they construct a circuit with a switch?	sounds and explain how they are made? Can they compare sources of sound and explain how the sounds differ? Can they explain how to change a sound (louder/softer)? Can they describe and explain how a sound travels from a source to our ears? Can they explain what happens
Can they use a classification key to	Can they identify and name	Can they compare and group	conductors and insulators, and associate metals with being good conductors (Year 4 Summer 2) Can they explain how electricity	Can they describe a range of

answer questions, including recognising and •controlling variables where necessary with increasing acc when appropriate •recording data an		data and results of increasing complexity using diagrams and labels, classification keys, tables, scatter		 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. 		
Can they plan and carry out an investige controlling variables fairly and accurate	-	_	surements using a range of scientific creasing accuracy and precision?			rom investigations through written
Can they make a prediction with reason can they use test results to make furth predictions and set up further compart can they present a report of their find writing, display and presentation?	ner ative tests?	-	ore complex data and results using scienti Ition keys, tables, bar charts, line graphs a		Can they use a graph to a	nswer scientific questions?
Biolog	v		Chemistry		Ph	ysics
Living things & their habitats	Animals (in	ncluding humans)	Properties & changes of materials		Earth & Space	Forces
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 (Year 5 Autumn 1)		e changes as elop to old age ner 1)	•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	Earth to the •desc. moon •desc. moon spheri •use t rotatii night movel sky	ribe the movement of the and other planets relative is un in the solar system ribe the movement of the relative to the Earth ribe the sun, Earth and as approximately ical bodies the idea of the Earth's on to explain day and and the apparent ment of the sun across the	•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 5 Summer 2)

Can they describe and compare the	Can they create a timeline to	•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 (Year 5 Spring 1) (Year 5 Spring 2)	Can they identify and explain	Can they explain what gravity is
lifecycles of a range of animals, including humans, amphibians, insects and birds?	indicate stages of growth in humans?	based on scientific evidence? (hardness, solubility, transparency, conductivity, insulation, magnetism)	the movement of Earth relative to the sun?	and its impact on our lives? Can they explain why a wheeled
insects and birds?	Can they explain what puberty	conductivity, insulation, magnetism)	Can they explain how seasons	object that is initially pushed will
Can they describe the lifecycles of	is?	Can they explain the process of	and the associated weather is	slow down and stop?
common plants?		dissolving?	created?	
Can they describe and explain the process of respiration in humans and plants?		Can they recover a substance from a solution?	Can they identify and explain the movement of the moon relative to the Earth?	Can they explain the impact of friction on a moving object? Can they explain the effect of
		Can they decide how a mixture would		drag force on moving objects?
Can they talk with knowledge about birth, reproduction and death of familiar animals or plants?		best be separated? (filtering, sieving, evaporating)	Can they explain the size, shape and position of the Earth, sun and moon?	Can they explain how force and motion can be transferred
Can they explore the work of well know naturalists? (David Attenborough and Jane Goodall)		Can they give reasons for the uses of everyday materials based on scientific evidence?	Can they explain how night and day are created and use diagrams to show this?	through gears, pulleys, levers and springs?
		Can they show what they know about the properties of different materials?	Can they explain how planets are linked to stars?	
		Can they use their knowledge of materials to suggest ways to classify? (solids, liquids, gasses)		

			Can they describe changes using scientific words? (evaporation, condensation) Can they use the terms 'reversible' and 'irreversible'? Year 6			
			Working Scientifically			
Planning			Obtaining and Presenting Evidence	Considering Evidence and Evaluating		g Evidence and Evaluating
•planning different types of scientific enquiries to answer questions, including recognising and •controlling variables where necessary		increasing a appropriate •recording of scientific did	 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. 	
Can they explore different ways to test an idea and choose the best way, and give reasons?		Can they ex ICT based ed	plain why they have chosen specific equipquipment).	oment? (incl	Can they find a pattern from their data and explain what it shows?	
Can they vary one factor whilst keeping same in an experiment? Can they explathis? Can they plan and carry out an investig controlling variables fairly and accurate	ation by	Can they ex	ecide which units of measurement they not plain why a measurement needs to be record their measurements in different way es and line graphs).	peated?	Can they link what science?	oh to answer scientific questions? they have found out to other ow to improve their work and say
Can they make a prediction with reasons? Can they use information to help make a prediction? Can they use test results to make further predictions and set up further comparative tests?		-	ke measurements using a range of scienti with increasing accuracy and precision?	fic	why they think this? Can they record more complex data and results usin scientific diagrams, classification keys, tables, bar charts, line graphs and models? Can they report findings from investigations through written explanations and conclusions?	
Can they explain (in simple terms) a sci what evidence supports it?	entific idea and					

Can they present a report of their findings through writing, display and presentation?

Biology			Physics	
Living things & their habitats	Animals, including humans	Evolution & Inheritance	Light	Electricity
•describe how living things are classified into broad groups according to common observable characteristics and based on similarities and differences, including micro-organisms, plants and animals •give reasons for classifying plants and animals based on specific characteristics (Year 6 Spring 1)	•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 (Year 6 Spring 2)	 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 (Year 6 Summer 1) (Year 6 Summer 2) 	•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 (Year 6 Autumn 1)	•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 (Year 6 Autumn 2)
Can they explain the classification of living things into broad groups based on common observable characteristics? (five kingdoms of all living things, vertebrates, mammals, marsupials). Can they subdivide their original groupings and explain their divisions?	Can they identify and explain the function of the organs of the human circulatory system? (heart, blood vessels, blood, blood pressure, clotting). Can they identify and explain the function of the organs of the human gaseous exchange system? (lungs, nose, throat,	Can they give reasons for why living things produce offspring of the same kind? Can they give reasons for why offspring are not identical with each other or with their parents?	Can they explain how light travels? Can they explain how the human eye sees objects? Can they explain how different colours of light can be created?	Can they identify and name the basic parts of a simple electric series circuit? (cells, wires, bulbs, switches, buzzers). Can they compare and give reasons for variation in how components function, including bulb brightness, buzzer volume and on/off position of switches?

	bronchi, bronchial tubes,	Can they explain the process of	Can they use and explain how	
Can they group animals into	diaphragm, ribs, breathing).	evolution and describe the evidence	simple optical instruments	Can they explain how to make
vertebrates, and invertebrates?		for this?	work? (periscope, telescope,	changes in a circuit?
	Can they name the major		binoculars, mirror, magnifying	
	organs in the human body?	Can they begin to appreciate that	glass, Newton's first reflecting	Can they explain the impact of
		variation in offspring over time can	telescope).	changes in a circuit?
	Can they locate the major	make animals more or less able to		
	human organs?	survive in particular environments?	Can they explain changes linked	Can they explain the effect of
			to light (and sound)?	changing the voltage of a
	Can they make a diagram that	Can they talk about the life of Charles		battery?
	outlines the main parts of a	Darwin?		
	body?			