Y5 Livi	ng things and their habitats	Child Self-	Teacher
		Assessment	Assessment
tanding ncept	Can draw the life cycle of a range of animals identifying similarities and differences between the life cycles.		
Shows unders of a co	Can explain the difference between sexual and asexual reproduction and give examples of how plants reproduce in both ways.		
e in texts,	Can present their understanding of the life cycle of a range of animals in different ways e.g. drama, pictorially, chronological reports, creating a game.		
owledge ted coni ange of	Can identify patterns in life cycles		
ving kno iar relat ding a r	Can compare two or more animal life cycles studied		
Apply famili incluo	Can explain how a range of plants reproduce asexually		
	Key vocabulary		
	Life cycle, reproduce, sexual, sperm, fertilises, egg, live young, metamorphosis,		
	asexual, plantlets, runners, bulbs, cuttings		

Y5 Animals including humans		Teacher
	Assessment	Assessment
Can explain the changes that takes place in boys and girls during puberty enabling the adult to reproduce.		
Primary characteristics (from birth)		
Secondary characteristics (during puberty)		
Can explain how a baby changes physically as it grows and also what it is		
able to do:		
When babies are young they grow rapidly;		
Babies are very dependent on their parents;		
As babies develop they learn many skills.		
Direct teaching (PSHE)		
Key vocabulary:		
Puberty, primary and secondary sexual characteristics		
	Is including humans Can explain the changes that takes place in boys and girls during puberty enabling the adult to reproduce. Primary characteristics (from birth) Secondary characteristics (during puberty) Can explain how a baby changes physically as it grows and also what it is able to do: When babies are young they grow rapidly; Babies are very dependent on their parents; As babies develop they learn many skills. Direct teaching (PSHE) Key vocabulary: Puberty, primary and secondary sexual characteristics	Is including humansChild Self- AssessmentCan explain the changes that takes place in boys and girls during puberty enabling the adult to reproduce.Primary characteristics (from birth)Secondary characteristics (during puberty)Can explain how a baby changes physically as it grows and also what it is able to do: When babies are young they grow rapidly; Babies are very dependent on their parents;As babies develop they learn many skills.Direct teaching (PSHE)Key vocabulary: Puberty, primary and secondary sexual characteristics

Y5 Proper	(5 Properties and changes of materials		Teacher
		Assessment	Assessment
	Can use understanding of properties to explain everyday uses of materials.		
rectly	For example, how bricks, wood, glass and metals are used in buildings		
f a con ary cor	Can explain what dissolving means, giving examples		
ling o cabula	Can name equipment used for filtering and sieving		
x oo	Can use knowledge of liquids, gases and solids to suggest how materials		
underst sientific	can be recovered from solutions or mixtures by evaporation, filtering or sieving		
d sc	Can describe some simple reversible and non-reversible changes to		
Shov using	materials, giving examples		
	Can create a chart or table grouping/comparing everyday materials by		
s,	different properties		
d context	Can use test evidence gathered about different properties to suggest an		
	appropriate material for a particular purpose		
. related	Can group solids based on their observations when mixing them with water		
iliar ies	Can give reasons for choice of equipment and methods to separate a given		
n fam Inquir	solution or mixture such as salt or sand in water		
je i of e	Can explain the results from their investigations involving dissolving and		
owledo range (non-reversible change		
d a	Key vocabulary		
/inc dinc	Thermal/electrical insulator/conductor, change of state, mixture, dissolve,		
Apply inclu	solution, soluble, insoluble, filter, sieve reversible/non-reversible change, burning, rusting, new material		

Y5 Earth ar	id space	Child Self- Assessment	Teacher Assessment
icept	Can create a voice over for a video clip or animation		
of a con ary	Can show using diagrams the movement of the Earth and Moon		
nding c 'ocabul	Can explain the movement of the Earth and Moon		
s understa scientific v ttly	Can show using diagrams the rotation of the Earth and how this causes day and night		
Show using correc	Can explain what causes day and night		
	Can use the model to explain how the Earth moves in relation to the Sun		
e a	and the moon moves in relation to the Earth		
relateo enquiri	Can demonstrate and explain verbally how day and night occur		
e of	Can explain evidence gathered about the position of shadows in term of		
e in fan a rang	the movement of the Earth. Can show this using a model		
wledge	Can explain how a sundial works		
ing knc xts, inc	Can explain verbally using a model why we have time zones		
Apply conte	Can describe the arguments and evidence used by scientists in the past		
	Key vocabulary: <i>Earth, Sun, Moon, (Mercury, Jupiter, Saturn, Venus, Mars, Uranus, Neptune) spherical, solar system, rotates, star, orbit, planets</i>		

Y5 Forces		Child Self-	Teacher
		Assessment	Assessment
	Can demonstrate the effect of gravity acting on an unsupported object		
ific	Can give examples of friction, water resistance and air resistance		
ndin cient cctly	Can give examples of when it is beneficial to have high or low friction, water		
lersta sing so corre	resistance and air resistance		
ws und cept us abulary	Can demonstrate how pulleys, levers and gears work		
Sho con voc			
. <u> </u>	Can explain the results of their investigations in terms of the force, showing		
dge ng a	a good understanding that as the object tries to move through the water or		
ing knowled ar related xts, includir of enquirie	air or across the surface, the particles in the water, air or on the surface slow		
	it down		
Apply famili conte range	Can demonstrate clearly the effects of using levers, pulleys and gears		
	Key vocabulary:		
	Force, gravity, Earth, air resistance, water resistance, friction, mechanisms,		

Simple machines, revers, puncys, gears	simple machines, levers, pulleys, gears
--	---

Y6 Livi	ng things and their habitats	Child Self- Assessment	Teacher Assessment
ص.	Can give examples of animals in the five vertebrate groups and some of the invertebrate groups		
standing of 3 scientific orrectly	Can give the key characteristics of the five vertebrate groups and some invertebrate groups		
s unders pt using ulary co	Can compare the characteristics of animals in different groups		
Shows concel vocabi	Can give examples of flowering and non-flowering plants		
tdge td ing a	Can use classification materials to identify unknown plants and animals		
knowle r relate includi	Can create classification keys for plants and animals		
Applying in familia contexts,	Can give a number of characteristics that explain why an animal belongs to a particular group		
	Key vocabulary: <i>Vertebrates, fish, amphibians, reptiles, birds, mammals, invertebrates, insects, spiders, snails, worms, flowering and non-flowering</i>		

Y6 Animals incl	uding humans	Child Self- Assessment	Teacher Assessment
iding of using y	Can draw a diagram of the circulatory system and label the parts and annotate it to show what the parts do		
Shows understar a concept scientific vocabular correctly	Produces a piece of writing that demonstrates the key knowledge e.g. explanation text, job description of the heart		
related Inquiries	Use the role play model to explain the main parts of the circulatory system and their role		
in familiar range of e	Can use subject knowledge about the heart whilst writing conclusions for investigations		
including a	Can explain both the positive and negative effects of diet, exercise, drugs and lifestyle on the body		
Applying F contexts,	Present information e.g. in a health leaflet describing impact of drugs and lifestyle on the body		
	Key vocabulary Heart, pulse, rate, pumps, blood, blood vessels, transported, lungs, oxygen, carbon dioxide, nutrients, water, muscles, cycle, circulatory system, diet, exercise, drugs and lifestyle		

Y6 Evolution and inheritance

Child Self- Teacher

		Assessment	Assessment
ص ا	Can explain the process of evolution		
ding of a cientific rectly	Can give examples of how plants and animals are suited to an environment		
derstan using s Ilary coi	Can give examples of how an animal or plant has evolved over time e.g. penguin, peppered moth		
Shows und concept u vocabul	Give examples of living things that lived millions of years ago and the fossil evidence we have to support this		
	Can give examples of fossil evidence that can be used to support the theory of evolution		
edge ated ling a	Can identify characteristics that will make a plant or animal suited or not suited to a particular habitat		
j knowl liar rela , incluc	Can link the patterns seen in the model to the real examples		
Applying in fami contexts	Can explain why the dominant colour of the peppered moth changed over a very short period of time		
	Key vocabulary <i>Offspring, sexual reproduction, vary, characteristics, suited, adapted, environment,</i> <i>inherited, species, fossils</i>		

Y6 Light		Child Self- Assessment	Teacher Assessment
ws Inding of pt using ntific	Can describe with diagrams or models as appropriate how light travels in straight lines either from sources or reflected from other objects into our eyes.		
Sho understa a conce sciel	Can describe with diagrams or models as appropriate how light travels in straight lines past translucent or opaque objects to form a shadow of the same shape.		
owledge related :luding a nquiries	Can explain how evidence from enquiries shows that light travels in straight lines		
Applying kn in familiar contexts, inc range of er	Can predict and explain with diagrams or models as appropriate how the path of light rays can be directed by reflection to be seen, for example reflection in car rear view mirrors or in a periscope.		
	Key Vocabulary <i>Light, light source, dark, absence of light, transparent, translucent, opaque, shiny, matt, surface, shadow, reflect, mirror, sunlight, dangerous, straight lines, light rays.</i>		

Y6 Elec	ctricity	Child Self- Assessment	Teacher Assessment
hows erstandin of a	Can make electric circuits and demonstrate how variation in the working of particular components, such as the brightness of bulbs can be changed by increasing or decreasing the number of cells or using cells of different voltages		
S unde g	Can draw circuit diagrams of a range of simple series circuits using recognised symbols		
g e in ated	Can incorporate a switch into a circuit to turn it on and off		
vpplying wledge iliar rela	Can change cells and components in a circuit to achieve a specific effect		
knc fami	Can communicate structures of circuits using circuit diagrams with recognised symbols		

Can devise ways to measure brightness of bulbs, buzzer during a fair test	speed of motors, volume of a
Can predict results and answer questions by draw	ing on evidence gathered
Key VocabularyCircuit, complete circuit, circuit diagram, circuit sy buzzer, motor, switch, voltageNB Children do not need to understand what volta voltage to describe different batteries. The words used interchangeably	mbol, cell, battery, bulb, age is but will use volts and cells and batteries are now