Year 6 Term 1	Year 6 Term 2	Year 6 Term 3	Year 6 Term 4	Year 6 Term 5
Evolution and inheritance	Light	Animals including humans	Living things and their habitats	Electricity
Preteach – What do I already know	Preteach – What do I already know	Preteach – What do I already know	Preteach – What do I already know	Preteach - What do I already
about evolution and inheritance?	about light?	about the circulatory system and	about classification?	about electricity and circuits?
		the impact of diet and lifestyle on		
Lesson 1 – How are fossils used to	Lesson 1 – How does light travel?	the human body?	Lesson 1 – How do we categorise	Lesson 1 – Which symbols do
show what living things looked like	Recognise that light appears to travel in straight		organisms?	use in a diagram of a simple c
millions of years ago?	lines.	Lesson 1 – What are the main parts	Describe how living things are classified into	Use recognised symbols when representing
Recognise that living things have changed over	Lanan 2. Haw da wa ana akianta?	of the circulatory system?	broad groups according to common observable characteristics and based on similarities and	simple circuit in a diagram.
time and that fossils provide information about living things that inhabited the Earth millions of	Lesson 2 – How do we see objects?	Identify and name the main parts of the human	differences, including micro-organisms, plants and	Lesson 2 - 3 - How will the nu
years ago.	Use the idea that light travels in straight lines to explain that objects are seen because they give	circulatory system, and describe the functions of	animals.	
, .	out or reflect light into the eye.	the heart, blood vessels and blood. Compare the organ systems of humans to other	Explain why classification is important.	of batteries in a circuit affect
Lesson 2 – Why do offspring vary to	Explain that we see things because light travels	animals.	Readily group animals into reptiles, fish, amphibians, birds and mammals.	volume of a buzzer?
their parents?	from light sources to our eyes or from light sources to objects and then to our eyes.	Explore the work of medical pioneers, for	Group animals into vertebrates and invertebrates.	(Formal investigation write up
Recognise that living things produce offspring of	Explain how different colours of light can be	example, William Harvey and Galen and recognise		Associate the brightness of a lamp (carrie year 4) or the volume of a buzzer with the
the same kind, but normally offspring vary and	created.	how much we have learnt about our bodies.	Lesson 2 – Which characteristics	and voltage of cells used in the circuit.
are not identical to their parents.		Lesson 2 – What are the functions	can I use to classify animals?	Planning different types of scientific enqu
Begin to understand what is meant by DNA.	Lesson 3 – What affects the shape		Give reasons for classifying plants and animals	answer questions, including recognising a
Lesson 3 – How and why do	of a shadow?	of the heart, blood vessels and	based on specific characteristics.	controlling variables where necessary. Taking measurements, using a range of sc
animals adapt to suit their	Use the idea that light travels in straight lines to	blood?	Readily group animals into reptiles, fish, amphibians, birds and mammals.	equipment, with increasing accuracy and
•	explain why shadows have the same shape as the	Identify and name the main parts of the human circulatory system, and describe the functions of	Group animals into vertebrates and invertebrates.	precision, taking repeat readings when
environment?	objects that cast them.	the heart, blood vessels and blood.		appropriate.
Identify how animals and plants are adapted to suit their environment in different ways and that		Explore the work of medical pioneers, for	Lesson 3 – Which characteristics	Recording data and results of increasing complexity using scientific diagrams and I
adaptation may lead to evolution.	Lesson 4 – 5 – How can we increase	example, William Harvey and Galen and recognise	can I use to classify plants?	classification keys, tables, scatter graphs,
Talk about the work of Charles Darwin, Mary	the number of reflections in a	how much we have learnt about our bodies.	Give reasons for classifying plants and animals	line graphs.
Anning and Alfred Wallace.	mirror?	Lesson 3 – How are water and	based on specific characteristics.	Using test results to make predictions to s
Explain how some living things adapt to survive in extreme conditions.	(Formal investigation write up)	nutrients transported within	Lesson 4 – How do I create a	further comparative and fair tests. Reporting and presenting findings from e
Analyse the advantages and disadvantages of	Use the idea that light travels in straight lines to	animals?		including conclusions, causal relationship
specific adaptations, such as being on two rather	explain that objects are seen because they give	Describe the ways in which nutrients and water	classification key?	explanations of and degree of trust in res
than four feet.	out or reflect light into the eye. Explain that we see things because light travels	are transported within animals, including humans.	(Group investigation task)	oral and written forms such as displays ar
	from light sources to our eyes or from light	Compare the organ systems of humans to other	Give reasons for classifying plants and animals based on specific characteristics.	presentations. Identifying scientific evidence that has be
Lesson 4 – How do plants adapt to	sources to objects and then to our eyes.	animals.	Sub divide their original groupings and explain	to support or refute ideas or arguments.
ensure survival?	Planning different types of scientific enquiries to	Name and locate the major organs in the human body.	their divisions.	Choose the best way to answer a question
Identify how animals and plants are adapted to	answer questions, including recognising and controlling variables where necessary.	Make a diagram of the human body and explain	Recording data and results of increasing	Use information from different sources to
suit their environment in different ways and that	Taking measurements, using a range of scientific	how different parts work and depend on one	complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and	a question and plan an investigation. Make a prediction which links with other
adaptation may lead to evolution.	equipment, with increasing accuracy and	another.	line graphs.	knowledge.
Explain how some living things adapt to survive in	precision, taking repeat readings when		Reporting and presenting findings from enquiries,	Identify the key factors when planning a f
extreme conditions. Analyse the advantages and disadvantages of	appropriate. Recording data and results of increasing	Lesson 4 – How does diet impact on	including conclusions, causal relationships and	Explain how a scientist has used their scie
specific adaptations, such as being on two rather	complexity using scientific diagrams and labels,	the way that a body functions?	explanations of and degree of trust in results, in oral and written forms such as displays and other	understanding plus good ideas to have a breakthrough.
than four feet.	classification keys, tables, scatter graphs, bar and	Recognise the impact of diet, exercise, drugs and	presentations.	Plan in advance which equipment they wi
	line graphs. Reporting and presenting findings from enquiries,	lifestyle on the way their bodies function.	Collect information in different ways.	and use it well.
Lesson 5 – How does adaptation	including conclusions, causal relationships and	Lesson C. What is the impact of		Make precise measurements.
lead to evolution?	explanations of and degree of trust in results, in	Lesson 5 – What is the impact of	Lesson 5 – Who are key scientists in	Collect information in different ways. Record their measurements and observat
Identify how animals and plants are adapted to suit their environment in different ways and that	oral and written forms such as displays and other	exercise on the human body?	the field of classification?	systematically.
adaptation may lead to evolution.	presentations.	(Formal investigation write up)	Find out about the significance of the work of	Explain qualitative and quantitative data.
Talk about the work of Charles Darwin, Mary	Choose the best way to answer a question. Use information from different sources to answer	Recognise the impact of diet, exercise, drugs and	scientists such as Carl Linnaeus, a pioneer of classification.	Draw conclusions from their work.
Anning and Alfred Wallace.	a question and plan an investigation.	lifestyle on the way their bodies function. Planning different types of scientific enquiries to	Explain why classification is important.	Link their conclusions to other scientific knowledge.
Analyse the advantages and disadvantages of specific adaptations, such as being on two rather	Make a prediction which links with other scientific	answer questions, including recognising and	Identifying scientific evidence that has been used	Explain how they could improve their way
than four feet	knowledge.	controlling variables where necessary.	to support or refute ideas or arguments.	working.
	Identify the key factors when planning a fair test. Plan in advance which equipment they will need	Taking measurements, using a range of scientific	Explain how a scientist has used their scientific understanding plus good ideas to have a	
Lesson 6 – How and why have eggs	and use it well.	equipment, with increasing accuracy and precision, taking repeat readings when	breakthrough.	Lesson 4 – What reasons are t
adapted to be the shape they are?	Make precise measurements.	appropriate.		for variations in how a compo
	Collect information in different ways.	Recording data and results of increasing		in a circuit functions?
(Formal investigation write un)				
(Formal investigation write up)	Record their measurements and observations systematically.	complexity using scientific diagrams and labels,		Compare and give reasons for variations i

	Year 6 Term 6		
	Investigations (Forensic science)		
<mark>dy know</mark>	Preteach – What do I already know		
ts?	about forensic science?		
do we	Lesson 1 – What are the different		
e circuit?	characteristics of fingerprints?		
enting a	Reporting and presenting findings from enquiries, including conclusions, causal relationships and		
	explanations of and degree of trust in results, in		
number	oral and written forms such as displays and other		
ect the	presentations. Taking measurements, using a range of scientific		
	equipment, with increasing accuracy and		
e up)	precision, taking repeat readings when		
arried out in	appropriate. Use information from different sources to answer		
n the number	a question and plan an investigation.		
nouirios to			
enquiries to ng and	Lesson 2 – How can I separate		
	colours? Planning different types of scientific enquiries to		
of scientific and	answer questions, including recognising and		
in and	controlling variables where necessary.		
	Recording data and results of increasing complexity using scientific diagrams and labels,		
ing Ind labels,	classification keys, tables, scatter graphs, bar and		
ohs, bar and	line graphs.		
to cot	Reporting and presenting findings from enquiries, including conclusions, causal relationships and		
s to set up	explanations of and degree of trust in results, in		
m enquiries,	oral and written forms such as displays and other		
ships and	presentations Use information from different sources to answer		
results, in /s and other	a question and plan an investigation.		
, 	Plan in advance which equipment they will need and use it well.		
s been used nts.	Explain how a scientist has used their scientific		
stion.	understanding plus good ideas to have a		
es to answer	breakthrough.		
her scientific	Lesson 3 – What evidence can I		
g a fair test.	gather from a crime scene?		
scientific	Planning different types of scientific enquiries to answer questions, including recognising and		
e a	controlling variables where necessary.		
y will need	Recording data and results of increasing complexity using scientific diagrams and labels,		
	classification keys, tables, scatter graphs, bar and		
	line graphs.		
ervations	Reporting and presenting findings from enquiries, including conclusions, causal relationships and		
ata	explanations of and degree of trust in results, in		
ata.	oral and written forms such as displays and other		
fic	presentations Use information from different sources to answer		
way of	a question and plan an investigation.		
way of	Plan in advance which equipment they will need		
	and use it well. Explain how a scientist has used their scientific		
re there	understanding plus good ideas to have a		
nponent	breakthrough. Make procise measurements		
• • • • • •	Make precise measurements. Collect information in different ways.		
ons in how	Record their measurements and observations		
rightness of	systematically.		

Year 6 Science long term plan