Springfield Primary Academy

Inspiring Futures: Making Memories
Learning Creatively with:
High Expectations. Integrity. Respect. Resilience. Determination.



Year 6 Science Curriculum Map

Autumn 1	Spring 1	Summer 1
L.O. to investigate light and seeing		
• Understand that light appears to travel in straight	L.O. to understand evolution	
lines.	Recognise that living things have	L.O. to work scientifically
• Use the idea that light travels in straight lines to	changed over time and that fossils	 Plan enquiries, including recognising and controlling variables
explain that objects are seen because they give out	provide information about living things	where necessary.
or reflect light into the eyes.	that inhabited the Earth millions of years	 Use appropriate techniques, apparatus, and materials during
• Use the idea that light travels in straight lines to	ago.	fieldwork and laboratory work.
explain why shadows have the same shape as the	Recognise that living things produce	L.O. to understand electrical circuits
objects that cast them, and to predict the size of	offspring of the same kind, but normally	Associate the brightness of a lamp or the volume of a buzzer
shadows when the position of the light source	offspring vary and are not identical to	with the number and voltage of cells used in the circuit.
changes.	their parents.	Compare and give reasons for variations in how components
 Explain that we see things because light travels 	Identify how animals and plants are	function, including the brightness of bulbs, the loudness of
from light sources to our eyes or from light sources	adapted to suit their environment in	buzzers and the on/off position of switches. • Use recognised
to objects and then to our eyes.	different ways and that adaptation may	symbols when representing a simple circuit in a diagram.
	lead to evolution.	
build on the work on light in year 3, exploring the		Building on their work in year 4, pupils should construct simple
way that light behaves, including light sources,	introduced to the idea that	series circuits, to help them to answer questions about what
reflection and shadows. They should talk about	characteristics are passed from parents	happens when they try different components, for example,
what happens and make predictions	to their offspring, for instance by	switches, bulbs, buzzers and motors. They should learn how to
	considering different breeds of dogs, and	represent a simple circuit in a diagram using recognised symbols.
	what happens when, for example,	Note: Pupils are expected to learn only about series circuits, not
L.O. to work scientifically	labradors are crossed with poodles. They	parallel circuits. Pupils should be taught to take the necessary
 Present findings in written form, displays and 	should also appreciate that variation in	precautions for working safely with electricity
other presentations.	offspring over time can make animals	
 Use test results to make predictions to set up 	more or less able to survive in particular	
further comparative and fair tests.	environments, for example, by exploring	

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• Use simple models to describe scientific ideas, identifying scientific evidence that has been used to support or refute ideas or arguments.	höwhgiraffestinetksiggt ilonger on the development of insulating fur on the arctic fox. Pupils might find out about the work of palaeontologists such as Mary Anning and about how Charles Darwin and Alfred Wallace developed their ideas on evolution.	e. Determination.
Autumn 2	 L.O. to work scientifically Present findings in written form, displays and other presentations. Use test results to make predictions to set up further comparative and fair tests. Use simple models to describe scientific ideas, identifying scientific evidence that has been used to support or refute ideas or arguments. Plan enquiries, including recognising and controlling variables where necessary. Use appropriate techniques, apparatus, and materials during fieldwork and laboratory work. 	Summer 2
L.O. to understand animals and humans • Identify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and blood. • Recognise the importance of diet, exercise, drugs and lifestyle on the way the human body functions. • Describe the ways in which nutrients and water		L.O: to understand living things and their habitats. 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

are transported within animals, including humans.

give reasons for classifying plants and animals based on specific characteristics

L.O. to work scientifically

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Learning Greatively With		
build on their learning from years 3 and 4 about the main body parts and internal organs (skeletal, muscular and digestive system) to explore and	High Expectations. Integrity. Respect. Resilience. • Peresentations in written form, displays and other presentations. • Use test results to make predictions to set up further	
answer questions that help them to understand how the circulatory system enables the body to function.	comparative and fair tests	
Pupils should learn how to keep their bodies healthy and how their bodies might be damaged – including		
how some drugs and other substances can be		
harmful to the human bodyPlan enquiries, including recognising and		
controlling variables where necessary.Use appropriate techniques, apparatus, and		

materials during fieldwork and laboratory work.