



Year 6 Progressions of Skills - Science

2025/26	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Enrichment opportunities						
Science Unit	Living Things: Classifying big and small	Energy: Light and reflection	Living things: Evolution and Inheritance	Energy: Circuits, batteries and switches	Animals: Circulation and health	Making connections: Are some sunglasses safer than others?
Knowledge						
	<p>To know that 'organism' is a term used to refer to an individual living thing.</p> <p>To know that micro-organisms are incredibly small and cannot usually be seen by the naked eye.</p>	<p>To know that light travels in a straight line from a light source.</p> <p>To understand that luminous objects are seen as a result of light directly entering the eye, whereas non-luminous objects reflect light into the</p>	<p>To know that 'organism' is a term used to refer to an individual living thing.</p> <p>To know that micro-organisms are incredibly small and cannot usually be seen by the naked eye.</p>	<p>To know a wider variety of components in a series circuit (including buzzer and motor).</p> <p>To know the conventions used to draw circuit diagrams, including the recognised symbols for common components</p>	<p>To know the main parts of the human circulatory system (heart, blood vessels and blood).</p> <p>To know that the heart pumps blood around the body.</p> <p>To know that the blood</p>	<p>To revise the units Circulation and health and light and reflection.</p> <p>To revise the units lights and reflection and circuits, batteries and switches.</p> <p>To revise the units light and reflection and</p>



	<p>To know the characteristics of the different groups of vertebrates and commonly found invertebrates.</p> <p>To know that living things have changed over time.</p> <p>To know that fossils provide us with information about living things that inhabited the Earth millions of years ago.</p> <p>To know that characteristics are passed from parents to their offspring, but that all offspring vary from their parents.</p> <p>To know that over time, variation in</p>	<p>eye.</p> <p>To know that shiny surfaces reflect light uniformly.</p> <p>To know that when light is reflected off a surface, its direction changes.</p> <p>To know that mirrors and periscopes work using reflection of light on smooth surfaces.</p> <p>To understand why shadows have the same shape as the objects that cast them as a result of light travelling in straight lines.</p> <p>To understand relationships between light sources, objects and shadows</p>	<p>To know the characteristics of the different groups of vertebrates and commonly found invertebrates.</p> <p>To know that living things have changed over time.</p> <p>To know that fossils provide us with information about living things that inhabited the Earth millions of years ago.</p> <p>To know that characteristics are passed from parents to their offspring, but that all offspring vary from their parents.</p> <p>To know that over time, variation in offspring</p>	<p>and using straight lines.</p> <p>To know that the voltage of a circuit can be changed and how this affects bulb brightness (or buzzer volume).</p>	<p>vessels transport blood around the body.</p> <p>To know that the blood transports vital substances around the body, including oxygen and nutrients.</p> <p>To understand the relationships between different organ systems</p> <p>To understand the impact of diet, exercise, drugs and lifestyle on the way a body functions.</p> <p>To know that the heart rate is the number of beats per minute.</p> <p>To know that exercise increases heart rate.</p>	<p>circulation and health.</p> <p>Revise the units light and reflection and circulation and health.</p> <p>To report on findings in the form of an advert.</p>



	<p>offspring can affect animals' chances of survival in particular environments.</p> <p>To know that animals and plants have adapted to suit their environment over many millions of years and that this process can be called evolution.</p>	<p>To understand how and why the distance between the object and the screen affects the size of the shadow.</p> <p>To understand how the angle of a reflected ray is affected by the angle of the incoming ray on a smooth surface.</p>	<p>can affect animals' chances of survival in particular environments.</p> <p>To know that animals and plants have adapted to suit their environment over many millions of years and that this process can be called evolution.</p>			
<p>Working scientifically</p>						
	<p>To produce a classification key</p> <p>To use a classification key</p>	<p>To use evidence to form conclusions.</p> <p>To draw scientific diagrams.</p> <p>To pose questions</p> <p>To record results as a line graph.</p>	<p>To group factors.</p> <p>To evaluate the degree of trust and pose new questions for further enquiry.</p> <p>To consider evidence used to inform theories.</p>	<p>To use standardised symbols when drawing diagrams.</p> <p>To explain results using scientific knowledge.</p> <p>To design a results tables.</p> <p>To plan an enquiry.</p>	<p>To evaluate sources of information.</p> <p>To evaluate a model.</p> <p>To interpret patterns in data</p> <p>To write a method.</p>	<p>To plan a comparative test.</p> <p>To gather and record data</p> <p>To conclude and evaluate the investigation.</p>



			To consider the degree of trust in the evidence used.	To recognise that scientific knowledge can solve a problem.	To draw a line graph.	To report on findings in the form of an advert.