

## <u>Year 5/6 – Long Term Science Overview</u>

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1
Year A (2023-2024)	Earth & Space	Light	Living things and their habitats (Y5- life cycles)	Living things and their habitats (Y6 – classify)	Animals includir (Y6-circulatory
	-describe the movement of the Earth and other planets relative to the sun in the solar system -describe the movement of the moon relative to the Earth -describe the sun, Earth and moon as approximately spherical bodies -use the idea of the Earth's rotation to explain day and night and the apparent movement of the sun across the sky	<ul> <li>-recognise that light appears to travel in straight lines</li> <li>-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</li> <li>-explain that we see things because light travels from light sources to objects and then to our eyes</li> <li>-use the idea that light travels in straight lines to explain why shadows have the same shape as the objects that cast them</li> </ul>	-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	-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	-identify and name of the human circu and describe the fu heart, blood vessel -recognise the impo exercise, drugs and the way their bodie -describe the ways nutrients and wate transported within including humans
Year B (2022-2023)	Properties and changes of materials	Forces	Evolution and Inheritance		Electricity
	-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 -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.	-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	-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		-associate the brig lamp or the volume with the number ar cells used in the cir -compare and given variations in how co function, including of bulbs, the loudne and the on/off pos switches -use recognised syn representing a simp diagram



	Summer 2
ling humans 'y system)	Animals including humans (Y5- human changes)
the the main parts culatory system, functions of the els and blood apact of diet, nd lifestyle on dies function ys in which ter are in animals,	-describe the changes as humans develop to old age
ightness of a ne of a buzzer and voltage of circuit e reasons for components g the brightness dness of buzzers osition of symbols when mple circuit in a	