It is up to the class teachers which topic(s) they choose to include as part of their science-based project each year and which they wish to teach as independent science topics within their 2-week slots. When planning teachers should consider working scientifically and the investigations they will facilitate alongside the teaching of subject content.

Year 1/2	1/5	2/6	3/7	4/8
A	States of matter (1) - distinguish between an object and its material -identify and name a variety of everyday materials - describe physical properties of everyday materials - compare and group a variety of every day materials based on their physical properties. People: Brian Cox	Animals (1) - identify and name a variety of common animals - describe and compare the structure of a variety of common animals - identify, name, draw and label the basic parts of the human body - associate senses with specific parts People: Luigi Galvani, George Washington Carver, Jane Goodall	Plants (1) - identify and name a variety of common wild and garden plants including trees - identify and describe the basic structure of a variety of flowering plants including trees. People: Beatrix Potter	Habitats - explore and compare things that are living, dead and never alive - identify most living things live in specific habitats and provide basic needs - identify and name plants and animals in their habitat - describe how animals obtain food (food chains) People: Arthur Tansley
В	States of matter (2) - identify and compare the suitability of everyday materials for particular uses - find out how the shapes of solid objects made from some materials can be changed People:	Animals (2) - notice animals have offspring which grow - find out about the basic needs of animals - describe the importance of diet, exercise, and hygiene People: Florence Nightingale, Joseph Priestly	Plants (2) - observe and describe how seeds bulb and grow into mature plants - find out and describe how plants need water, light, and a suitable temperature to grow and stay healthy People: Theophrastus	Seasonal Changes - observe changes across the four seasons - observe and describe weather associated with the seasons and how day length varies. People: Aristotle

In Year 1/2 Year A or the first year of a topic should be Year 1 objectives then Year B should follow Year 2 objectives except habitats and seasonal changes which are found only once in the curriculum.

Year 3/4	1/5	2/6	3/7	4/8
A	Animals	Electricity	Plants	Sound
	- identify that animals need to eat and	- identify appliances that run	- identify and describe the	- identify how sounds are made
	get the right nutrition	on electricity	functions of parts of a plant	(vibration)
	- identify some animals have skeletons	- construct series circuits	- explore the requirements	-recognise how sound travels to
	and muscles and why	and name components	of plants for life and growth	the ear
	 describe function of the digestive 	- identify if series circuits	- explore the way in which	- find patterns between volume
	<i>s</i> ystem	will work (are complete loops)	water is transported within	and vibration strength
	- identify and describe the function of	- recognise how switches	plant <i>s</i>	- recognise that sounds get
	the different types of teeth	work	- explore the part that	fainter as the sources gets
	People: Mary Maynard Daly, James	- recognise conductors and	flowers play in the life cycle	further away
	Lind	insulators	of a flowering plant	People: Robert Boyle, Ernst
		People: Michael Faraday	People: Jan Ingenhousz	Chladni, Pythagoras
В	Forces	Light	Habitats	States of matter
	- compare how things move on different	- recognise that they need	- recognise that living things	- compare and group materials
	surfaces	light to see	can be grouped in different	together according to whether
	- notice that some forces need contact	- notice that light is	ways	they are solids, liquids, and gases
	between 2 objects, but magnets can act	reflected	- explore and use	- observe that some materials
	at distance	- recognise that light from	classification keys	change state
	- observe how magnets attract or repel	the sun can be dangerous	 identify and name living 	- identify the part played by
	- group magnetic and non-magnetic	- recognise how shadows are	things in their local and wider	evaporation and condensation in
	materials	formed	environment	the water cycle
	- describe magnets as having 2 poles	- find patterns in the way	People: Alexander von	People: Albert Einstein
	- predict whether 2 magnets will attract	that shadows change size	Humboldt	
	or repel	People: Thomas Edison,		
	People: William Gilbert	Joseph Sawn		

1/5	2/6	3/7	4/8
Light	Evolution	Habitats	States of Matter
- recognise that light appears to	- recognise that living things	- describe the differences in the	- describe everyday materials on
travel in straight lines	have changed over time	life cycle of a mammal,	the basis of their properties
- use the idea that light travels in	- know that fossils provide	amphibian, an insect, and a bird	- know that some materials will
straight lines to explain that	information about living things	- describe the life process of	dissolve to form a solution and how
objects are seen because they	that inhabited the Earth	reproduction in some plants and	to recover a substance
give out or reflect light into the	- recognise that living things	animals	- use knowledge of solids, liquids,
eye	produce offspring of the same	- describe how living things are	and gases to decide how to
- explain how we see things and	kind	classified into broad groups	separate mixtures
how this relies on light	- identify how animals and	according to common	- give reasons, based on evidence
- use the idea that light travels in	plants are adapted to suit their	characteristics and based on	from testing, for the particular
straight lines to explain shadows	environment and that	similarities and differences	use of everyday materials
shapes	adaptation may lead to	- give reasons for classifying	- demonstrate that dissolving,
	evolution.	plants and animals based on	mixing and changes of state are
People: Al-Hasan Ibn al-Haythma,	People: Barbara McClintock,	specific characteristics	reversible
Robert Hooke, Aristotle	Charles Darwin, James Watson	People: Carl Linnaeus	People: Stephanie Kwolek
Animala		Elecanicia.	Fouth and Chase
		•	Earth and Space
_		3	- describe the movement of the
•		•	Earth and other planets relative to
		_	the sun
• •			 describe the movement of the moon relative to 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.
_	•		People: Sara Seager, Tim Peake,
)	_	Stephanie Wilson, Chris Hadfield,
7 odyod, Chzabeth Blackburn	1 eopie. Isaac New Toll		Helen Sharman, Alan Guth
	Light - recognise that light appears to travel in straight lines - 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 - explain how we see things and how this relies on light - use the idea that light travels in straight lines to explain shadows shapes People: Al-Hasan Ibn al-Haythma,	Light - recognise that light appears to travel in straight lines - 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 - explain how we see things and how this relies on light - use the idea that light travels in straight lines to explain shadows shapes People: Al-Hasan Ibn al-Haythma, Robert Hooke, Aristotle Animals - describe the changes as humans develop to old age - identify the main parts of the circulatory system and describe the impact of diet, exercise, drugs, and lifestyle on the way their bodies function - describe the ways in which nutrients and water are transported within animals including humans People: William Harvey, Tu Evolution - recognise that living things have changed over time - know that fossils provide information about living things that inhabited the Earth - recognise that living things that inhabited the Earth ore cognise that living things that inhabited the Earth - recognise that living things that inhabited the Earth - recognise that living things that inhabited the Earth - recognise that living things that inhabited the Earth - recognise that living things that inhabited the Earth - recognise that living things that inhabited the Earth - recognise that living things that inhabited the Earth - recognise that living things that inhabited the Earth - recognise that living things that inhabited the Earth - recognise that living things that inhabited the Earth - recognise that living things that inhabited the Earth - recognise that living things that inhabited the Earth - recognise that living things that inhabited the Earth - recognise that living things that inhabited the Earth - recognise that living things - identify how animals and plants are adapted to suit their - recognise that living things - recognise that living things - recognise that l	Light - recognise that light appears to travel in straight lines - 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 - explain how we see things and how this relies on light - use the idea that light travels in straight lines to explain shadows shapes - explain how we see things and how this relies on light - use the idea that light travels in straight lines to explain shadows shapes - explain how we see things and how this relies on light - use the idea that light travels in straight lines to explain shadows shapes - explain how we see things and how this relies on light - use the idea that light travels in straight lines to explain shadows shapes - explain shadows adaptation may lead to evolution. People: Al-Hasan Ibn al-Haythma, Robert Hooke, Aristotle Animals - describe the differences in the life cycle of a mammal, amphibian, an insect, and a bird - describe the life process of reproduction in some plants and a minals and plants are adapted to suit their environment and that adaptation may lead to evolution. People: Barbara McClintock, Charles Darwin, James Watson (DNA) Forces - 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 plants are adapted to suit their environment and that adaptation may lead to evolution. People: Barbara McClintock, Charles Darwin, James Watson (DNA) Forces - 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 rescognise the wliving things amproduce offspring of the same kind - describe the differences in the life cycle of a mammal, amphibian, an insect, and a bird - describe the life process of reproduction in some plants and object-same classified into broad groups according to common characteristics and differences - give reaso