



Indian Queens School and Nursery

Science progression map – EYFS and KS1 2022 – 2023

Working Scientifically All Year 1 Year 2		Reception	Year 1	Year 2
Pupils will be taught to use the following skills when carrying out investigations:		The children will:	The children will:	The children will:
Asking simple questions and recognising that they can be answered in different ways		Make observations of plants and talk about changes	identify and name a variety of common wild and garden plants, including deciduous and evergreen trees	observe and describe how seeds and bulbs grow into mature plants
 Ask questions about how and why things change Ask questions about how and why things are similar or different Ask questions about how things are and the way they work Ask questions to find out what people do and how things work Ask questions about why and how things are linked 	Plants		identify and describe the basic structure of a variety of common flowering plants, including trees. Scientist: Maria Sibylla Merian (German artist, scientific	find out and describe how plants need water, light and a suitable temperature to grow and stay healthy. Thomas Wyatt Turner - search document for information (Botanist who
			illustrator, and naturalist)	studied plant disease)
Observe closely, using simple equipment and measurement		The children will:	The children will:	The children will:
With help identify changes to observe and measure	ns	Make observations of animals and talk about changes	identify and name a variety of common animals including fish, amphibians, reptiles, birds and mammals	notice that animals, including humans, have offspring which grow into adults
 and suggest how to do it Identify simple changes and talk about them Make comparisons between simple features of objects, materials or living things Use non-standard units and simple equipment to 	Animals, including humans		identify and name a variety of common animals that are carnivores, herbivores and omnivores	find out about and describe the basic needs of animals, including humans, for survival (water, food and air)
record changes • Sequence the changes Performing simple tests	Animals, inc		describe and compare the structure of a variety of common animals (fish, amphibians, reptiles, birds and mammals, including pets)	describe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene.
With help notice links between cause and effect			Tanesha Allen (Zoologist who studies badgers)	Elizabeth Garrett Anderson (First English woman to qualify as a doctor)





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storm tracker)

2022 - 2023

With help identify simple variables to change and measure		The children will:	The children will:	The children will:
 Identify similarities and differences and talk about them Use non-standard units and simple equipment to 		Talk about the similarities and differences in relation to materials	distinguish between an object and the material from which it is made	identify and compare the suitability of a variety of everyday materials.
record data Suggest ways in which a test can be carried out			identify and name a variety of	find out how the shapes of
 Suggest ways in which to record tests 			everyday materials, including wood, plastic, glass, metal,	solid objects made from some materials can be
Understand why a test should be fair	SIE		water, and rock	changed by squashing, bending, twisting and
 Identify and classifying Decide what to observe to identify or sort things 	Materials		describe the simple physical properties of a variety of	stretching. Charles Macintosh - links to free
Sort objects by observable and behavioural features	Š		everyday materials	resources requiring a login (Chemist and inventor of
Using their observations and ideas to suggest answers to questions			compare and group together a variety of everyday materials the basis of their circular	waterproof clothing)
 Use my records to help sort or identify other things Talk about whether the information source was 			on the basis of their simple physical properties.	Dr Pearl Agyakwa (Materials scientist who studies why some
useful			Scientist: <u>Becky Schroeder</u> - links to free resources requiring a login	materials wear out and other don't)
Gathering, recording and communicating data and			(Inventor of Glo-sheets which she patented as a 12-year-old)	,
findings to help in answering questions.			paterited as a 12-year-old)	
 With help make suggestions about how to find things out 		The children will:	The children will:	
 Use simple books and electronic media to find things out 	ges	Talk about the features of their own	observe changes across the	
Begin to use scientific language to talk about what you have found out	chan	environment and how environments vary from one another	four seasons	
Record my sorting in sorting circles or tables	Seasonal changes		observe and describe weather associated with the seasons	
Record in words and pictures what you find out	easc		and how day length varies.	
	ဟ		Jim Cantore (Meteorologist and	





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ı	•	Record observations	in	words	or	pictures	or	simple
ı		tables						_

- Record in words or pictures or in simple prepared formats such as tables and / or charts
- Record in words or pictures or in simple prepared formats such as tables, tally charts and maps

<u>Use scientific language and read and spell age</u> appropriate scientific vocabulary

- Begin to use scientific language to talk about how things are similar or different
- Use vocabulary related to the topic

Begin to notice patterns and relationships.

- With help decide what patterns to observe and measure and suggest how to do it.
- Identify simple patterns and talk about them
- Make links between two sets of observations
- Use non-standard units and simple equipment to record events that might be related
- Begin to use scientific language to talk about patterns
- Talk about whether the pattern was as expected.

The children will:

Know about the similarities and differences in relation to living things

The children will:

- explore and compare the differences between things that are living, dead, and things that have never been alive
- identify that most living things live in habitats to which they are suited and describe how different habitats provide for the basic needs of different kinds of animals and plants, and how they depend on each other
- identify and name a variety of plants and animals in their habitats, including microhabitats
- describe how animals obtain their food from plants and other animals, using the idea of a simple food chain, and identify and name different sources of food

Prem Singh Gill (Polar Scientist who studies where Antarctic seals live, breed and feed)

Mary Anning - Fossil hunter who developed the theory that dinosaurs had become extinct a long time ago

Living things and their habitats