



SCIENCE at Emersons Green Primary

Curriculum intent

Our scientists....

- will have a strong understanding of the world around them
- will have the specific skills and knowledge they need to help them to think scientifically
- will gain an understanding of scientific processes
- will gain an understanding of the uses and implications of Science, today and for the future.

Our science curriculum focuses on...

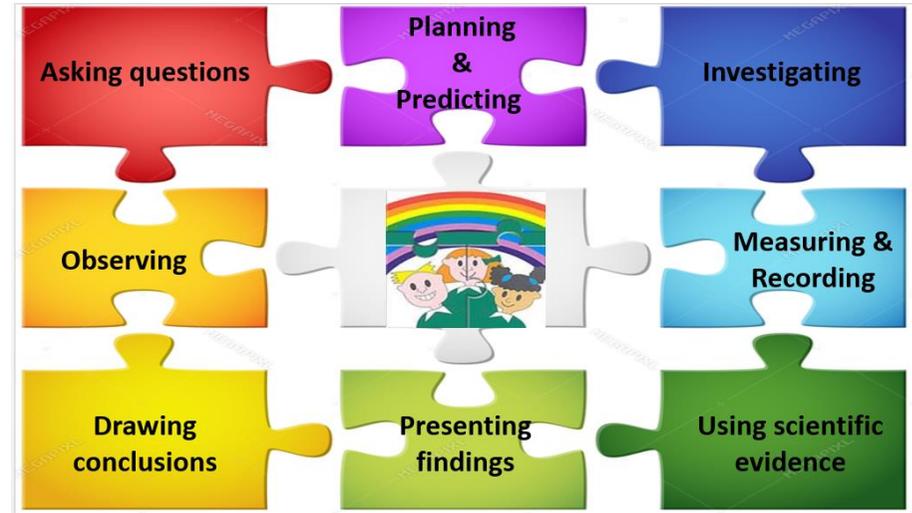
- scientific enquiry skills which are embedded in each topic the children study
- a progression in which topics are revisited and knowledge is deepened each time, building on prior knowledge and embedding knowledge into the long-term memory.

Big Ideas



- Enquiry based questions lead each topic/unit of science.
- Science knowledge and skills explicitly planned in each lesson.

Content and Sequencing



Communication:

- Communication used for speculating, hypothesising, imagining and exploring ideas
- Key vocabulary is explicitly taught, built into lessons and displayed in classrooms
- Key vocabulary is programmed into communication devices
- Makaton for key vocabulary is learnt and used by adults supporting individuals



Accessibility:

- Our curriculum is fully inclusive and our highly skilled staff support all children in accessing the NC Programmes of Study
- Structured questions, sentence stems, Clicker grids, Boardmaker symbols and practical learning is used to support
- Resources can be adapted to suit individual needs (e.g. talking jug for measuring, use of 'real' objects for children to feel and see)
- Children's scientific work can be recorded in different ways (e.g. through photographs, by using tactile graphs to display data)
- Pre-teaching of technical vocabulary enables access for all



Diversity:

We value diversity in Science through

- the different scientists we study
- the resources we use
- the adaptations we make

to ensure everybody can access the learning.

Through our Science studies, we learn about scientists of different backgrounds, for example

- Charles Darwin
- Michael Faraday
- Mary Anning
- Isambard Kingdom Brunel
- Stephen Hawking



Links with English and Maths:

- High quality texts with a science focus (e.g. Yucky Worms, The Great Kapok Tree, Floodland)
- Report and instructional writing
- Key vocabulary explicitly taught
- Measurement and Statistics

Cultural Capital & Personal Development:

- Stay and Explore
- Visitors to school (e.g. Space Dome, Bristol Zoo)
- Hatch eggs
- Gardening
- Make a wildlife home
- Look after animals

