Science

at St Cuthbert Mayne.

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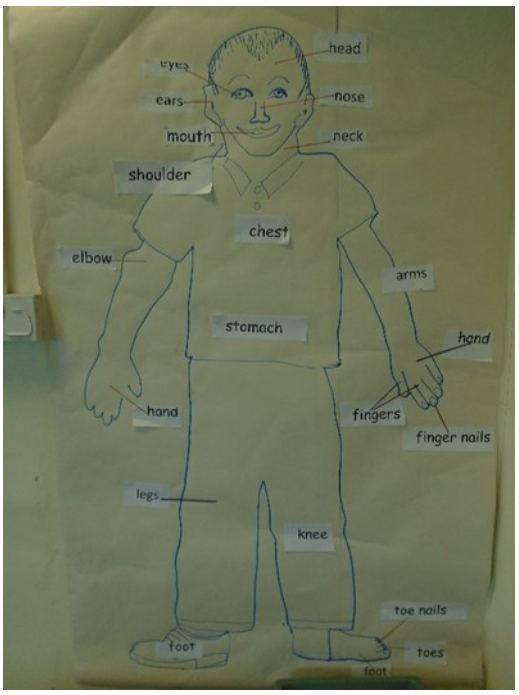
Science in our school is about developing children's ideas and ways of working that enable them to make sense of the world in which they live through investigation, as well as using and applying process skills. Children will study range of scientific topics including; life processes and living things, materials and their properties, and physical properties.



Years 1 and 2

Working scientifically

During years 1 and 2, pupils should be taught to use the following practical scientific methods, processes and skills through the teaching of the programme of study content:

asking simple questions and recognising that they can be answered in different ways.

observing closely, using simple equipment.

performing simple tests.

identifying and classifying.

using their observations and ideas to suggest answers to questions.

gathering and recording data to help in answering questions.

Topics covered:

- **Plants**
- **Animals, including humans**
- **Everyday materials**
- **Seasonal changes**

Years 3 and 4

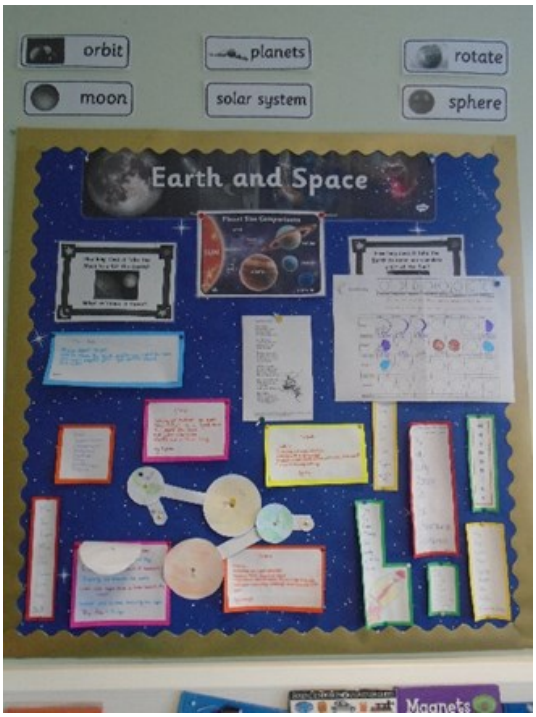
Working scientifically

During years 3 and 4, pupils should be taught to use the following practical scientific methods, processes and skills through the teaching of the programme of study content:

- asking relevant questions and using different types of scientific enquiries to answer them.
- setting up simple practical enquiries, comparative and fair tests.
- making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers.
- gathering, recording, classifying and presenting data in a variety of ways to help in answering questions.
- recording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables.
- reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions.
- using results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions.
- identifying differences, similarities or changes related to simple scientific ideas and processes.
- using straightforward scientific evidence to answer questions or to support their findings.

Topics covered:

Plants
Animals, including humans
Rocks
Light
Forces and magnets



Years 5 and 6

Working scientifically

During years 5 and 6, pupils should be taught to use the following practical scientific methods, processes and skills through the teaching of the programme of study content:

planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary.

taking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate.

recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs.

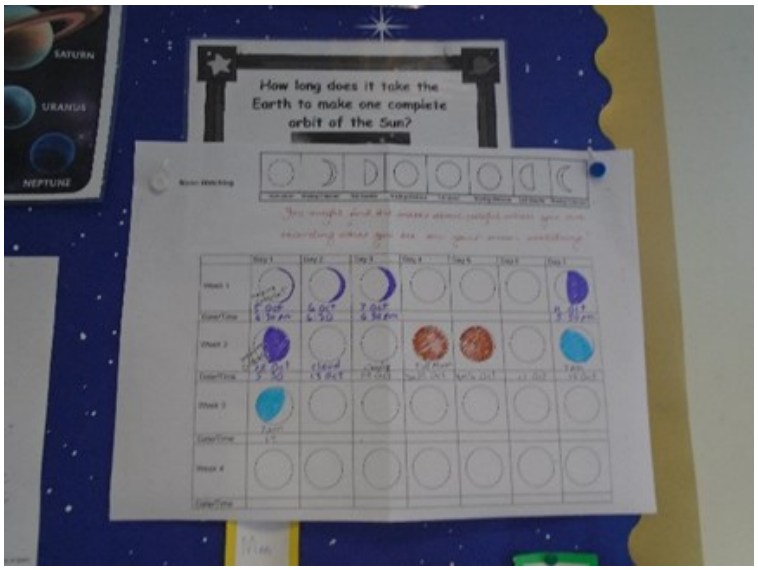
using test results to make predictions to set up further comparative and fair tests.

reporting and presenting findings from enquiries, including conclusions, causal relationships and explanations of and degree of trust in results, in oral and written forms such as displays and other presentations.

identifying scientific evidence that has been used to support or refute ideas or arguments.

Topics covered:

- **Living things and their habitats**
- **Animals, including humans**
- **Properties and changes of materials**
- **Earth and space**
- **Forces**



Upcoming events –

Science Challenge at Glebelands School

Each year at Glebelands School they run a Community Science Challenge. We enter and send 6 teams of budding scientist across all of KS1 and KS2 to take part.

Years 1 and 2 – Monday 30th January 2017

Years 3 and 4 – Tuesday 31st January 2017

Years 5 and 6 – Wednesday 1st February 2017

Science Challenge 2015 – 2016

Links to curriculum websites

http://www.bbc.co.uk/education/subjects/z7nygk7
http://www.sciencekids.co.nz/
http://www.kidsastronomy.com/

http://www.ngkids.co.uk/science-and-nature