



DILKES ACADEMY

Garron Lane, South Ockendon, Essex RM15 5JQ

Telephone: 01708 852128

E-mail: admin.DA@catrust.org.uk

Headteacher: Mr R Latham BA (Hons), MA

SCIENCE

Science is divided into biology, chemistry and physics and taught every week at Dilkes Academy. Some of the topics are revisited and children's understanding and knowledge is enhanced each year.

Year 1

In science, children study the topics Materials, Seasons, Animals (including Humans) and Plants. Scientific investigation are carried out in all topics and children are encouraged to work scientifically by asking scientific questions, making suggestions about what they have found out, recording their results and using simple data to interpret findings.

Year 2

Year 2 cover topics of Living Things and Habitats, Plants, Animals (including Humans) and Materials. Pupils carry out various scientific investigations throughout the year and develop key skills which encourage them to ask scientific questions, use and select equipment appropriate to the investigation, make suggestions about what they have found out, record their results and use simple data to interpret findings,

Year 3

In science, children develop an understanding of Plants, Animals including Humans, Rocks, Light, Forces and Magnets. In year 3 pupils begin to set up and carry out experiments with an understanding of fair testing. In addition they develop scientific skills such as deciding on different ways to record and represent data, selecting and using a variety of equipment, and making predictions with scientific reasoning.

Year 4

Year 4 cover the topics Living Things and Habitats, Animals including Humans, Electricity Sound and States of Matter. In Year 4 pupils continue to set up comparative tests developing an understanding of fair testing and justifying their reasons for this. They use specific equipment such as data loggers and thermometers to take measurements and select appropriate ways to record and present data.

Year 5

In Year 5 children cover the topics Living Things and Habitats, Animals including Humans, Properties and Changes of Materials, Earth and Space and Forces. Children progress with their scientific skills by planning different types of scientific enquiry, measuring accurately and precisely, recording data in tables, classification keys and graphs as well as explain and concluding results.

Year 6

In science Year 6 study Living Things and Habitat, Animals including Humans, Evolution and Inheritance, Light and Electricity. Children progress with their scientific skills by planning different types of scientific enquiry, measuring accurately and precisely, recording data in tables, classification keys and graphs as well as explain and concluding results. In addition to this children also begin to research key scientist and spell, read and use scientific vocabulary with more accuracy.