

Scientific knowledge

- I can compare how things move on different surfaces.
- I can notice that some forces need contact between two objects, but magnetic forces can act at a distance.
- I can observe how magnets attract or repel each other and attract some materials and not others.
- I can compare and group together a variety of everyday materials on the basis of whether they are attracted to a magnet, and identify some magnetic materials.
- I can observe how magnets attract or repel each other and attract some materials and not others.
- I can describe magnets as having two poles.

Maths

Statistics

Interpret and present data using bar charts, pictograms and tables (Yr3)

Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs (Yr4)

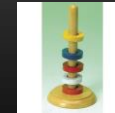
Measurement

Measure, compare, add and subtract: lengths (Yr3)

Convert between different units of measure (Yr 4)

FORCES and MAGNETS

Magnetic fun and games



Help Ms Pullman design a new range of toys which use forces and magnetism!

Scientific enquiry

- 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
- 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
- using results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions
- reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions
- using straightforward scientific evidence to answer questions or to support their findings

Lines of enquiry

It is important we understand 'how' we learn about Science.



Observing over time - Scrutin
- eyes



Comparative and fair testing -
Fair Flo



Identifying, classifying and
grouping - Commander
Classify



Pattern Seeking - Pattern
Man



Research using secondary
sources - Roger Research