St Bernard's Catholic Primary School Spring Term Bears Class Year 3

Topic: On the move

Science: Forces 2 and magnets

What should I already know?

Identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, water, rock, paper and cardboard for particular uses.

Find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching (applying a force).

Scientific skills, knowledge and understanding

- Making and testing simple predictions
- To investigate the forces acting on magnets
- To understand that magnetic forces can act at a distance and do not need contact
- To ask and answer questions related to magnets
- To suggest a question to investigate, make predictions , carry out a fair test
- To investigate different materials to see if they are attracted to magnets or not
- To understand that magnets have 2 poles
- To predict whether magnets will attract or repel each other based on which poles are facing

Vocabulary

North pole

South pole

Material

Metal

Plastic

Fabric

Wood

Iron

Steel

Aluminium

Copper

brass

Working scientifically

- Make and test simple predictions
- To ask and answer questions related to magnets
- To suggest a question to investigate, make predictions
- To begin to make some decisions about the best way to answer questions
- As a group, find a practical way of comparing magnets
- To decide how to set up a simple fair test and recognise when it is not fair
- carry out a fair test
- Sort materials depending whether they are magnetic or not
- Collect data and record and present findings using simple scientific language
- Use their results to consider whether they met their predictions
- Draw a simple conclusion
- Write a simple explanation of why things happened

- **<u>What I will Know by the end of the unit</u>**
- To know that magnets are an example of a force
- Magnets have a north and south pole
- Opposite poles attract
- some magnets are stronger than others
- only metals are attracted to magnets
- not all metals are attracted – iron and steel