

Science

What we should already know...

Practical activities within FS provision - using pulleys in construction areas outdoors, pushing trains along a track

As Scientists, we will...

- Notice that some forces need contact between two objects, but magnetic forces can act at a distance
- Observe how magnets attract or repel each other and attract some materials and not others
- 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
- Describe the two poles of a magnet
- Predict whether two magnets will attract or repel each other depending on which poles are facing

Vocabulary

force, push, pull, friction, surfaces, materials, contact, magnet, magnetic, non-magnetic, attraction, repulsion, pole, north, south, sliding friction, static friction, resist, elastic

Art

What we should already know...

- Use sketch books to experiment with artistic ideas of their own in sketchbooks.
- Experiment with different techniques and make sensible choices about what to do next to improve.
- Deliberately choose to use particular materials, media and techniques for a given purpose
- Develop and exercise some care and control over their art work (e.g. they do not accept the first mark but seek to refine and improve)
- Express clear preferences and give some reasons for these (e.g. "I like that because...")
- Talk about the materials, techniques and processes they have used, using an appropriate vocabulary

As artists, we will...

- Use sketch books to collect, record and review artistic ideas from a range of different sources.
- Develop technical skills by experimenting with, and testing the qualities of a range of different materials and techniques.
- Reflect upon what they like and dislike about their own work in order to improve it.
- Be able to explain how to use some of the tools and techniques they have chosen to work with.
- Shape and model materials for a purpose Use tools and equipment safely and in the correct way.
- Select and use appropriate techniques for joining materials. Select and use various techniques to create 3D artwork using cardboard (e.g. layering, rolling, weaving, folding etc

Vocabulary

armature, frame, mould, figure, proportion, form, corrugated, foreshortening

Application of knowledge
Outcome - Make a magnetic robot

Outcome - Cardboard Relief art work inspired by Mark Langan



Outcome - Design and make a magnetic robot

