

Subject: Science

Topic: Forces and Magnets

Class: Blackbird

What should I already know?



The difference between an object and the material from which it is made.

The name and simple physical properties of a variety of everyday materials.

That the shapes of solid objects made from some materials can be changed

Vocabulary

Prior	Required	Challenging
Stiff - hard to bend Rigid - will not bend Flexible - easy to bend Waterproof - will not let water through Absorbent - soaks up liquid easily Transparent - see through Opaque - not see through Twist - bend out of shape	Force - the push or pull on an object Compass - a device for finding direction Magnetic - attracted to a magnet North and south pole of a magnet - the two ends of a magnet Attract - pull towards Repel - force apart	Contact force - a force caused by the objects touching Non-contact force - a force where the objects do not touch

What will I know by the end of the topic?



How some things move on different surfaces.

That some forces need contact between two objects but magnetic forces can act at a distance.

That magnets attract or repel each other and attract some materials and not others.

Identify some magnetic materials.

That magnets have two poles.

Scientific enquiry



Observing



Pattern seeking



Classifying

Skills

Observing
Questioning
Predicting
Investigating