

## Year 3 Spring Term 2: Forces - Friction and Magnets

Key Questions we will investigate

To pull towards. Opposite of repel. A force used to pull an object towards

Vocabulary Dozen

William Gilbert (born May 24, 1544, Colchester, Essex, England—died November 30th, 1603) observed that magnetic forces often produced circular motions. He began to connect magnetism with the rotation of the earth. This led to his discovery of the earth's own magnetism.

What are magnetic materials? How can we find out?

Can I make a magnetic material nonmagnetic? How far away does a magnet have to be

before it attracts a magnetic material? How far away can the magnetic attraction

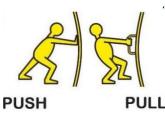
between two magnets be experiences? Is the repulsive force the same size?

How is the magnetic attraction of repulsion force affected by putting

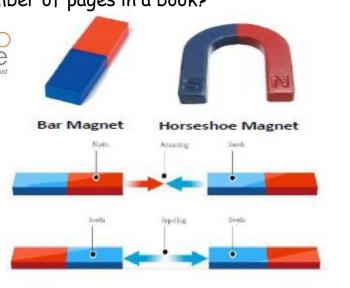
materials between the magnets? Are bigger magnets stronger?

How could you use magnets to measure the number of pages in a book?





André-Marie Ampère, (born January 20, 1775, Lyon, Francedied June 10, 1836, Marseille), French physicist who founded and named the science of electrodynamics, now known as electromagnetism. His name continues in everyday life in the ampere, the unit for measuring electric current.



another. To push away. Opposite of attract.

push A force used to push an object away. Ends of a magnet. One is North and the

attract

pull

repel

force

surface

pole other is South. Object that pulls or pushes things with magnet an invisible force called magnetism.

The push or pull on an object

using a magnetic needle that always compass points North. The force of attraction and repelling

magnetic caused by a magnet.

friction another. A force that causes things to drop to gravity

the ground. The outside edge of an object.

The rubbing of one object against

An instrument to help follow directions