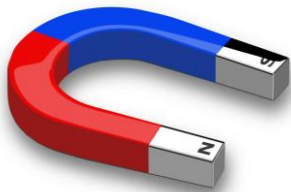


Share this information with your family



Forces refer to how fast something is pulled or pushed. Forces are all around us and this is why it is such an interesting topic. Gravity, drag, surface area and friction will all be discussed. Please read with your family and do some wider reading to think about how else forces impact your life.



### Magnets

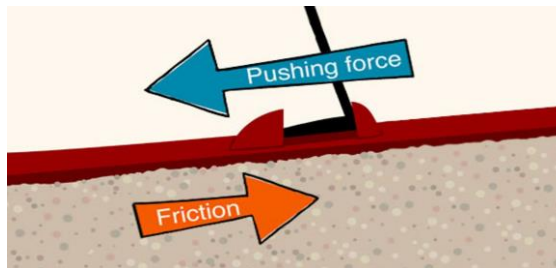
Magnets are like magic rocks that can make other things stick together or push apart. They have two sides, like a superhero with a north and a south. When different sides meet, they like each other, but when the same sides meet, they say, "No, no, go away!"

### Gravity



Is the force that pulls things to the ground. Gravity also holds Earth and other planets in their orbits around the sun.

### Friction:



Friction is a force between 2 surfaces that are sliding or trying to slide across each other. Friction works in the opposite direction to which the object is moving. It slows down the moving object. Smooth surfaces create less friction e.g. polished wood. Rough surfaces create more friction e.g. carpet

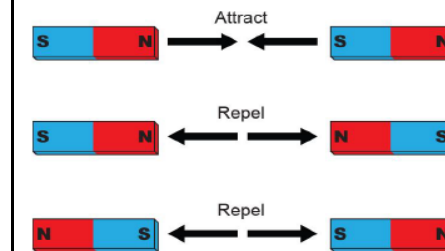
### Magnetic Materials



Not all materials are magnetic. Some everyday materials which are magnetic are:

Fridges Metal table legs at school

Paper clips



### Home Learning Project

In order to prepare for this exciting unit of learning, your task is to design a project about forces and magnets. To construct your project, you can use recyclable materials. It can be a poster, booklet, model or anything else you can think of! Be as creative as you like.

### Home Learning Project

- Why don't we float on earth?
- Why are some trainers better for running than others?
- Why do things slide more on smooth surfaces than rough ones?
- 

Bring your project to school on Tuesday 9<sup>th</sup> January.