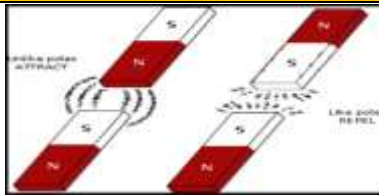
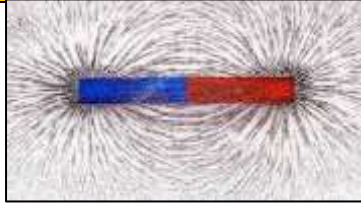
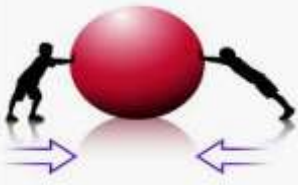




# Forces and Magnets - Year 3 Sticky Knowledge Mat



## Sticky Knowledge



Forces are pushes and pulls which make things move and stop moving.

Most forces need contact between objects, but magnets can act at a distance.

Magnets always have one north pole and one south pole.

Magnets can attract or repel one another.

Magnets only attract certain types of metals.

Forces can make an object speed up, slow down, change direction or change shape.

Different surfaces create different amounts of friction.

Magnetic ✓	Non-magnetic X
These objects contain iron, nickel or cobalt. Not all metals are magnetic.	These objects do not contain iron, nickel or cobalt.

**Prior Learning-** Find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching. (Y2 - Uses of everyday materials)



## Subject Specific Vocabulary

force	A push or pull on an object which can cause it to move, change speed, direction or shape. Measured in Newtons (N).
Magnet	An object which produces a magnetic force that pulls certain objects towards it.
attract	To pull towards. Opposite of repel.
repel	To push away. Opposite of attract.
friction	A force that acts between two surfaces or objects that are moving, or trying to move, across each other.
Magnetic	Objects that are attracted to a magnet.
Poles	Different ends of a magnet.
Gravity	The force that pulls things to the centre of the earth.
Air resistance	The friction that occurs between air and another object.