

Science Knowledge Organiser

This is physics.
Physics studies
natural matter.

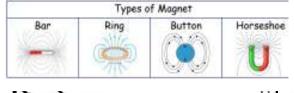








To know how the shapes of solid objects made by certain materials can be changed by squashing, bending, twisting and stretching.



Key Knowledge

- Forces are pushes and pulls.
- When you push, you move something away from you.
- Pulls move things towards you.
- The force changes the motion of an object, which means how it moves.
- Motions can make things move, speed up, slow down or stop.
- Forces act in opposite directions to each other.
- Friction is a force that holds back the motion of an object.
- When an object moves across a surface, friction acts as an opposit force.
 - Some objects can move slower across a surface because some surfaces create more friction.

Magnets:

- A magnet is a piece of iron or other material that **attracts a** magnetic material towards it.
- Magnets produce an area of force around them called a **magnetic field**.
- Objects are attracted or repels from the magnet depending on if they are magnetic when the object enters the magnetic field.
- If a magnet repels, they push each other away,
- If a magnet attracts, they pull together.
- Magnets have two ends, called poles. One end is called 'North pole' and the opposite end is called 'South pole'.
- Opposite poles attract whilst similar poles repel.