

# MAGNETIC MATERIALS

**WHAT ARE MAGNETS ATTRACTED TO?**

Magnets are attracted to other magnets and anything that has iron in it. Iron is used to make steel which is very strong and durable.

**HOW USEFUL ARE MAGNETS?**

Did you know there are many magnets in your house? Everything with a motor has a magnet in it. Dishwashers, washing machines, fans, microwaves. How many motors are there in your house?

**MAGNETIC FORCE**

The Dyson digital motor contains a very strong magnet made of neodymium.

The strong magnetic forces in the magnet make the Dyson digital motor spin up to 104,000 times per minute – five times faster than a Formula 1 car engine!

# MAGNETS

**THERE IS A MAGNETIC STRIP AROUND THE INSIDE YOUR FRIDGE...**

... TO KEEP THE DOOR SHUT.

**CREDIT CARDS HAVE A MAGNETIC STRIP THAT HOLDS ALL THE CARD INFORMATION.**

**MRI MACHINE**

Magnets can produce pictures of your body. A Magnetic Resonance Imaging machine uses an incredibly strong magnet that can produce a large, stable magnetic field.

**MAGNETS CAN BE USED TO HOLD PARTS OF THINGS TOGETHER, SUCH AS HANDBAGS OR TOYS.**

**ROLLERCOASTERS**

Rollercoasters use magnets to help propel carriages quickly at the beginning of the ride and to stop at the end.

**MOBILE PHONES HAVE MAGNETS IN THEIR SPEAKERS AND EARPIECES.**

The magnet vibrates the speaker or earpiece producing sound.

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