

## ELECTROMAGNETS – FICTION IN THE FACTS

Print a set of these cards for each group of students.

<p>For the magnet to work, the wire needs to be coiled in the same direction.</p>	<p>The magnetic property is caused by the battery.</p>
<p>All closed electrical circuits produce a magnetic field.</p>	<p>Magnetic fields in electrical circuits are created by a surplus of electrons in the wires.</p>

Magnetic fields in electrical circuits are created by the directional flow of electrons.

The more times you wrap the wire, the greater the electromagnetic effect.

The thicker the wire used, the greater the electromagnetic effect.

The thicker the inside iron core, the greater the electromagnetic effect.

The magnetic force created by an electrical circuit is influenced by the direction of the current flow.

If wire is coiled without an iron core (the core is empty), the magnetic field is within the coil.