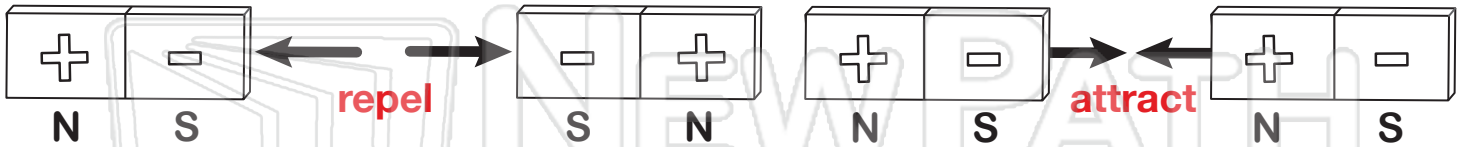




Magnetism

Name _____ Class _____ Date _____

A **magnet** is any substance that attracts the element **iron** or anything with iron in it. All magnets have opposite ends or **poles**. Because similar poles **repel** each other and opposite poles **attract** each other, **magnets** can either **repel or attract** each other.



Magnetic Fields

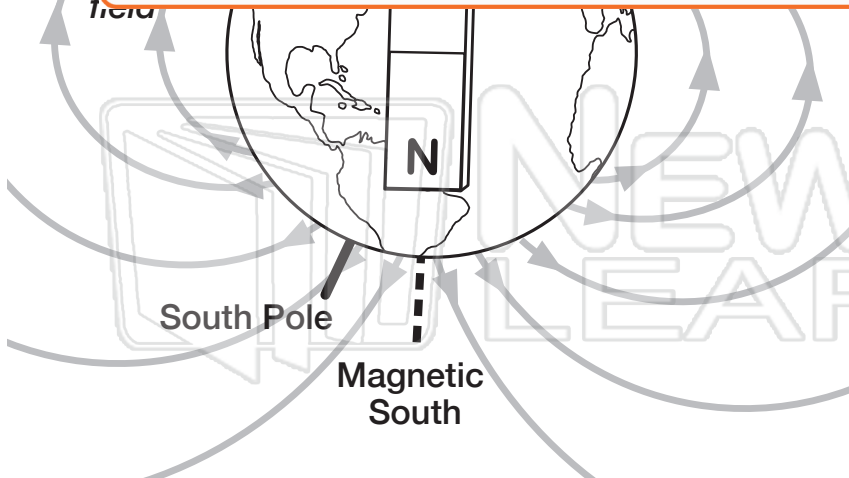
While the greatest **magnetic force** is at the **poles**, there is some degree of **magnetism** all around a magnet. This is called the **magnetic field**. It is the space around a magnet where magnetic materials are affected by forces. and so m

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a **south pole**.

A **compass** will point north because it is attracted to the opposite pole of the imaginary magnet inside the Earth. The Earth's magnetic North Pole is *actually* a magnetic South Pole of the magnetic substance of the Earth's core.

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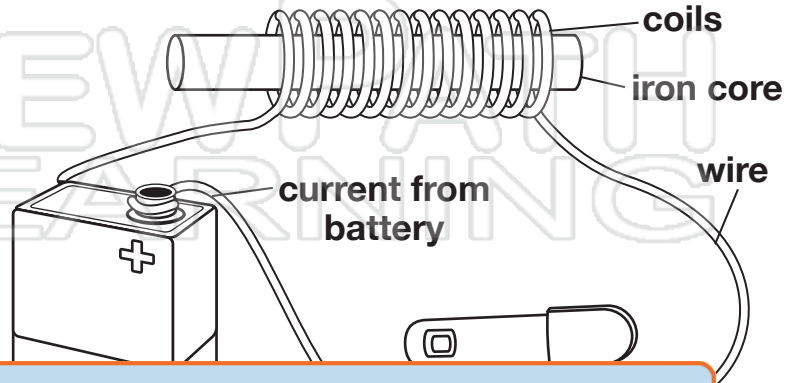
Magnetism

Name _____ Class _____ Date _____

Electromagnetism

Electromagnets

A **magnetic field** is produced when an **electric current** flows through a coil of wire. This relationship between electricity and magnetism is called **electromagnetism**. The magnetic field around an **electromagnet** is similar to the one around a bar magnet. Unlike bar magnets which are **permanent magnets**, the magnetism of electromagnets can be controlled by **switching on or off** the electric current.



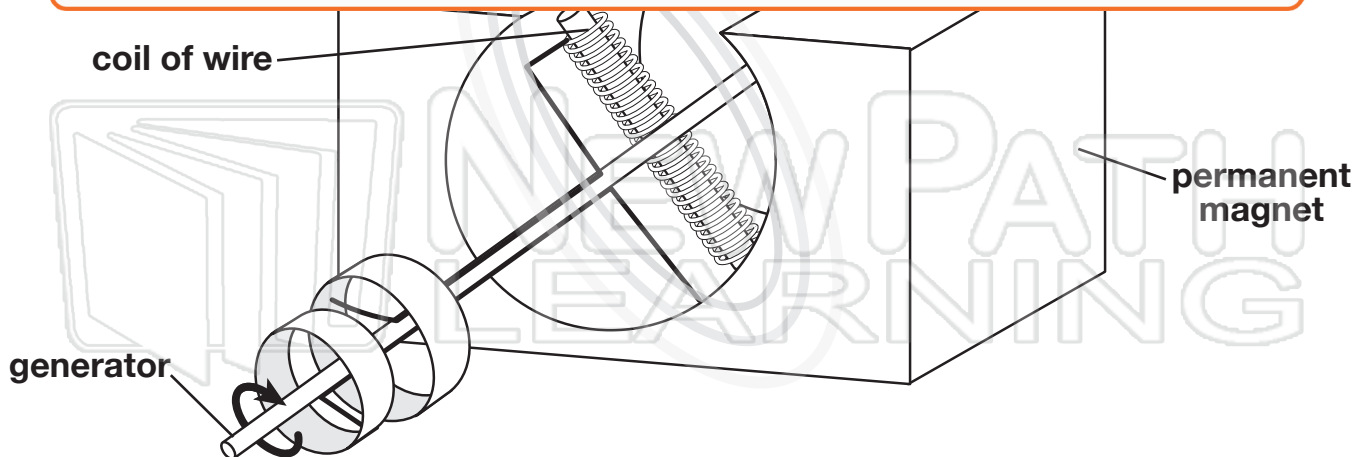
Electromagnets are used in many motors and electrical devices.

Electromagnetism is the force that is produced when an electric current is carried through a conductor.

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Electric field netic





Electromagnetism

Name _____ Class _____ Date _____

Fill in the blanks.

Magnetic Fields

While the greatest _____ is at the _____, there is some degree of _____ all around a magnet. This is called the _____. It is the space around a magnet where magnetic materials are affected by forces, and so may be attracted or repelled.

_____ lines are invisible lines that map the strength of the magnetic force

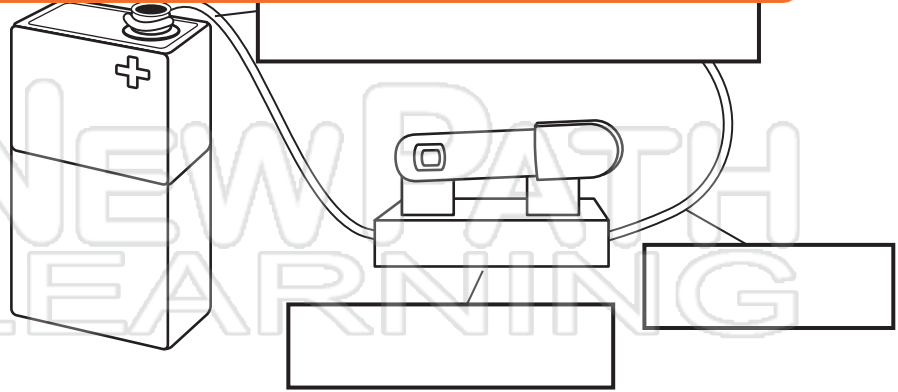
around
lines of
force



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What





Electromagnetism

Answer Key - Sample

Fill in the blanks.

Magnetic Fields

While the greatest magnetic force is at the poles, there is some degree of magnetism all around a magnet. This is called the magnetic field. It is the space around a magnet where magnetic materials are affected by forces, and so may be attracted or repelled.

Magnetic field lines are invisible lines that map the strength of the magnetic force

around
lines of
force



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What
It's a
a ma

running an electric current
through a coiled wire. They
are used in electric motors,
computers and power
generators, among other
devices.

