

ELECTRICITY AND ELECTROMAGNETISM

1.- Choose the correct words to complete the sentences.

An atom is made up of protons, _____ and neutrons.

electrons

nucleus

charges

Objects that have the same number of protons and electrons are _____.

positively charged

negatively charged

electrically neutral

If two objects are positively charged, they _____ each other.

repel

attract

rub

Magnets have two poles, north and _____.

south

east

west

Opposite poles _____ each other.

repel

attract

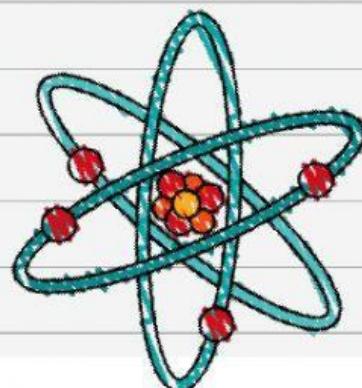
attack

The area around a magnet where it exerts its force is called a magnetic _____.

camp

field

zone



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2.- Choose the best answer.

What is an artificial magnet?

- a) It is a magnet made by people.
- b) It is a magnet that occurs in nature, for example the Magnetite.
- c) It is a magnet that acquires its magnetism after being in contact with nature.

What is a permanent magnet?

- a) It is a magnet that is attracted by another magnet.
- b) It is a magnet that only has temporary magnetic force.
- c) It is a magnet that never loses its magnetism.

What is magnetic field?

- a) It is the area around a magnet where its force has an effect.
- b) It is the area around a magnet where it can be attracted by another magnet.
- c) It is the area around a magnet where the force disappears.

3.- Choose the magnetic materials.

rubber wood steel paper glass

magnetite plastic wood cobalt

copper zinc gold iron

cotton brick carbon

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4.- Tick true or false about Earth's magnetism.

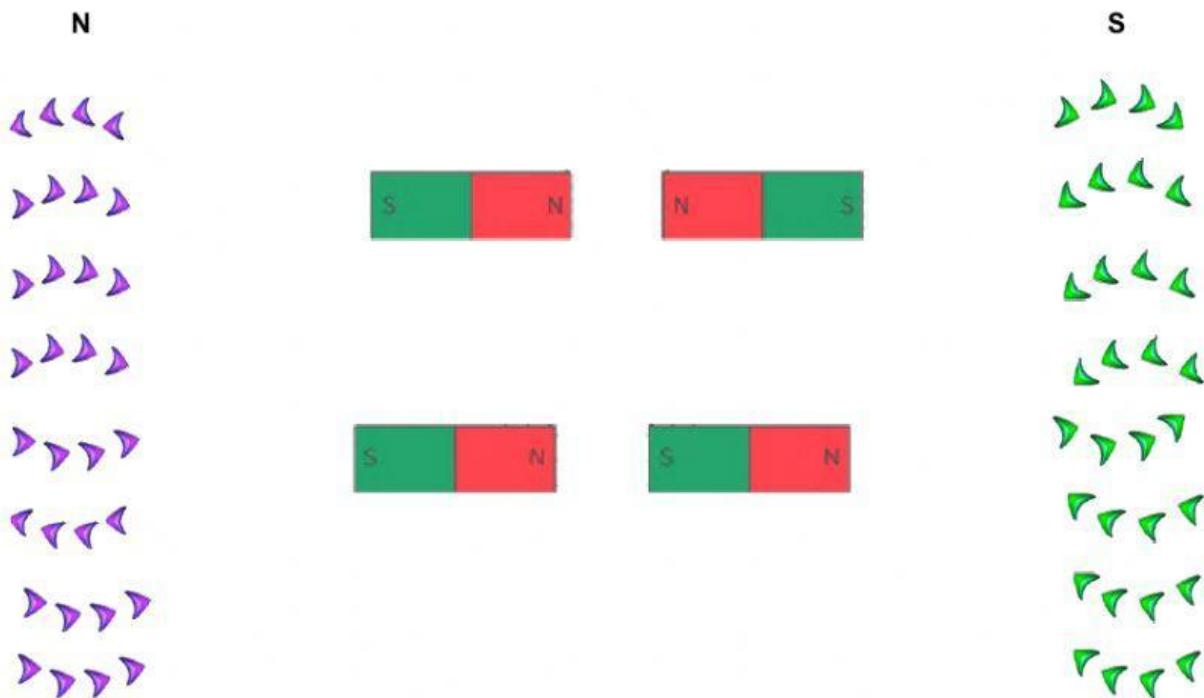
	TRUE	FALSE
The Earth has a core of liquid iron that acts like a giant magnet.		
It has two poles: A North geographical pole and a South geographical pole.		
The magnetic poles are at the same place as the Earth's geographical poles.		
The Earth's magnetic field protects us to harmful cosmic radiation.		

5.- Label the parts of the electromagnet.



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6.- Draw how these magnets will react.



7.- Circle the correct Word and then complete the sentences with your own words.

a) The magnets in picture A ATTRACT / REPEL each other because

b) The magnets in picture B ATTRACT / REPEL each other because
