

ELECTRICITY AND ELECTROMAGNETISM

1.- Read the text and choose the right options to complete it.

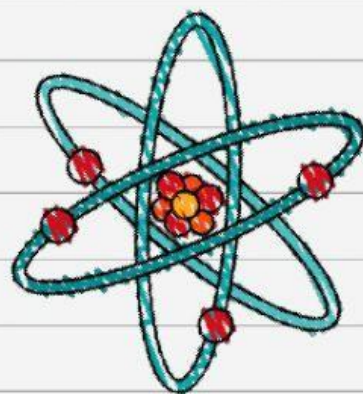
Electricity begins with the *smallest / biggest* particle in matter called *atom / electron*.

These particles are made up of *protons / electrons* and neutrons inside a nucleus and electrons moving around outside the cell *membrane / nucleus*.

Protons have a *positive / negative* electric charge and electrons have a *positive / negative* electric charge. Neutrons have no charge.

If an object has the *same / different* number of *protons / neutrons* and electrons, it is electrically neutral.

However, sometimes, electrons move easily from one *place / object* to another and this makes electrically *charge / charged*.



ELECTRICITY AND ELECTROMAGNETISM

2.- Choose the best answer.

What is a natural magnet?

- a) It is a magnet that is created out of other magnetic natural elements.
- 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.

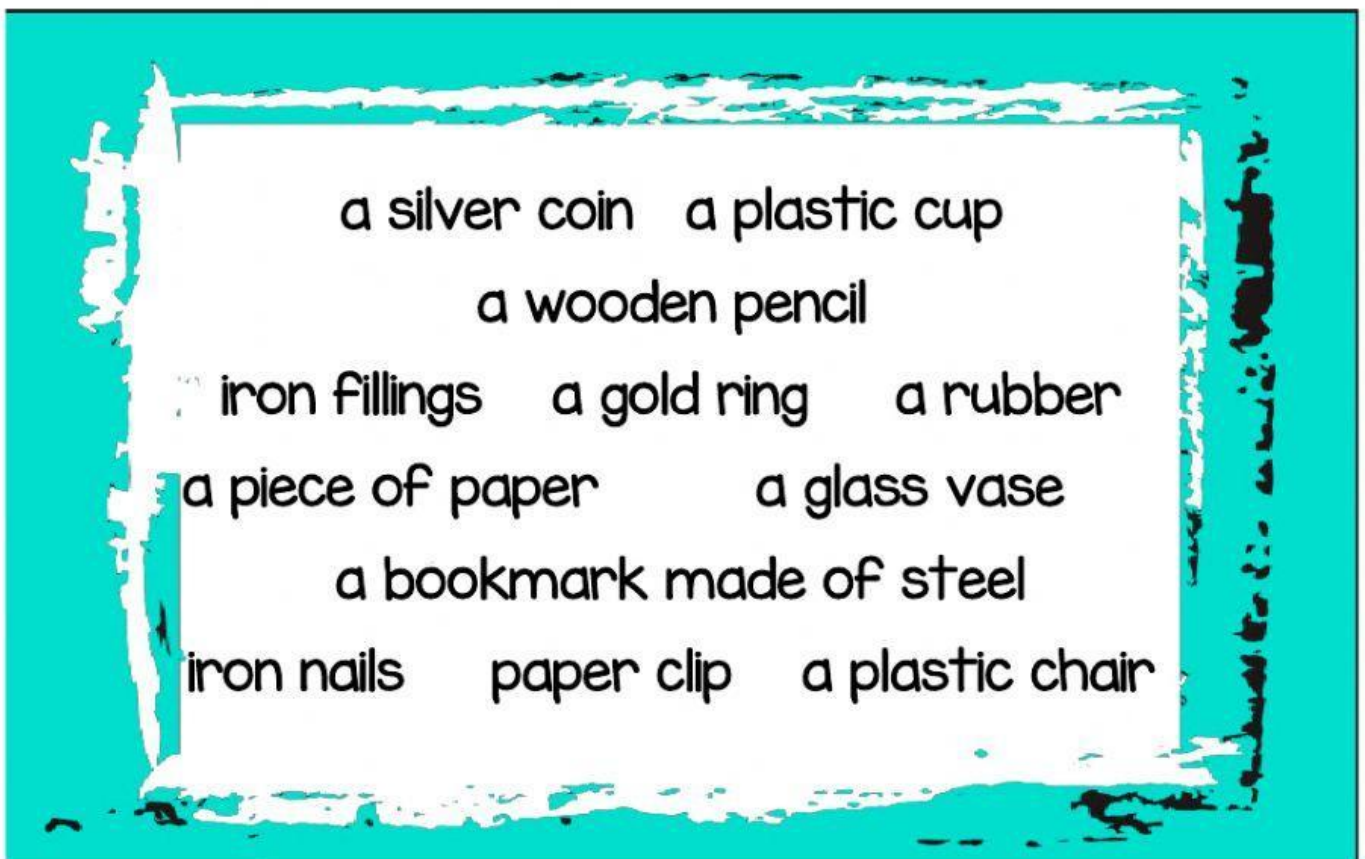
What is a pole?

- a) It is something that attracts the Earth.
- b) It is how electricity is created.
- c) Each of the extremes of a magnet.

What is an induced 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 is found in nature.

3.- Choose the object attracted to magnets.



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

The diagram shows a blue battery with a lightning bolt symbol. A wire is connected from the positive terminal (top) to a solenoid (a coil of wire). The other end of the wire is connected to the negative terminal (bottom). The solenoid is shown with a magnetic field, indicated by blue lines and paper clips attached to it. Labels a, b, c, and d point to specific parts of the setup:

- a. Points to the positive terminal of the battery.
- b. Points to the negative terminal of the battery.
- c. Points to the wire connected to the positive terminal.
- d. Points to the wire connected to the negative terminal.
