

ELECTRICITY AND ELECTROMAGNETISM

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

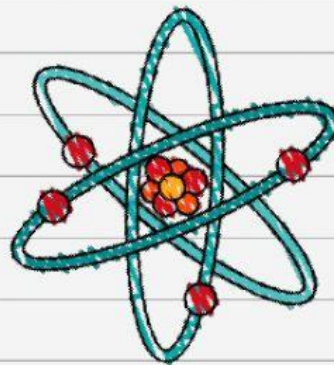
Electricity begins with the *smallest / biggest* particle in matter called *atom / electron*.

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*.



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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.



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

	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.		

5.- Label the parts of the electromagnet.



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
