

TAREA 13: What is electricity?

- Tienen que corregirse los ejercicios de la tarea 12 con las soluciones que incluyo aquí.
- Después, tienen que ver este vídeo sobre la electricidad:
<https://www.youtube.com/watch?v=oB1v-wh7EGU>
- Leerán la página 116 del libro de Natural Science (pueden escuchar el audio con las claves del libro digital que os mandamos).
- Finalmente vamos a demostrar la teoría que han leído haciendo el experimento del bolígrafo y los trocitos de papel que explico abajo. También pongo un experimento opcional que aparece en el libro por si tenéis globos por casa.

Corrección ejercicios (de la tarea 12):

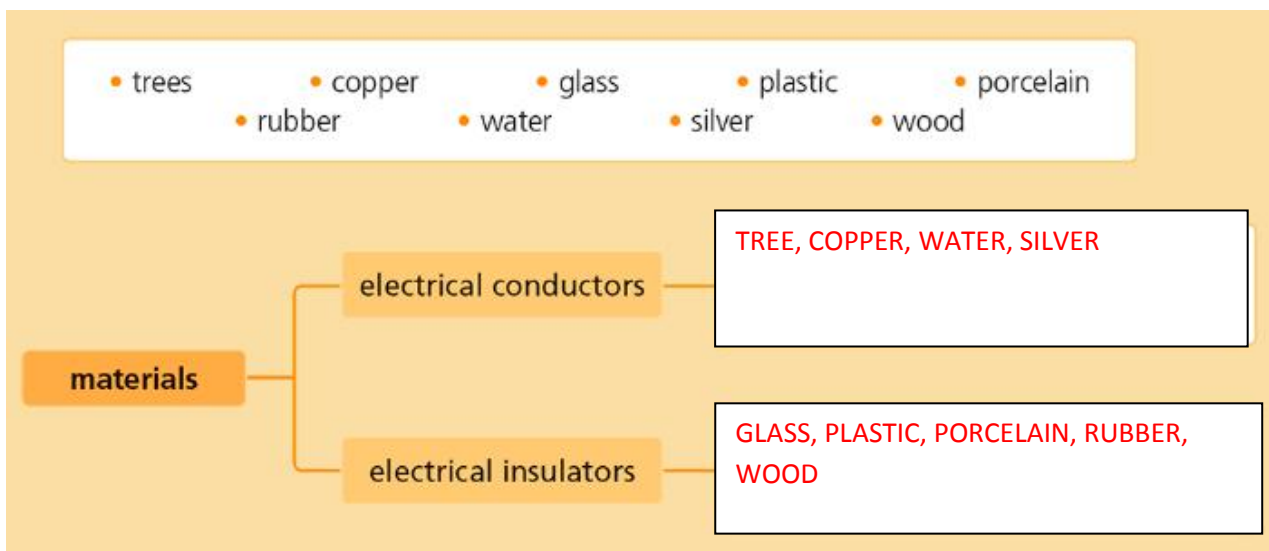
1. Which of the following objects do you think would be attracted to a magnet?

- A gold ring: NO
- An iron nail: YES
- A steel pin: YES
- A silver spoon: NO
- An aluminium pan: NO

2. How many things can you see from where you are know which use electricity?

Example (depending on your house): Computer, lamp, mobile phone, calculator..._

3. Complete the diagram below using the words in the box.



4. Classify these photos as electrical insulators and electrical conductors.

a. INSULATOR	b. CONDUCTOR	c. INSULATOR
d. CONDUCTOR	e. CONDUCTOR	f. INSULATOR

Experimento “Electrical charges”:

WHAT YOU NEED:

- Plastic pen
- Small pieces of paper
- A wool sweater (also works with a cotton one).

TRY THIS: Rub a plastic pen on a wool sweater and try to attract the small pieces of paper.

WHAT’S GOING ON?

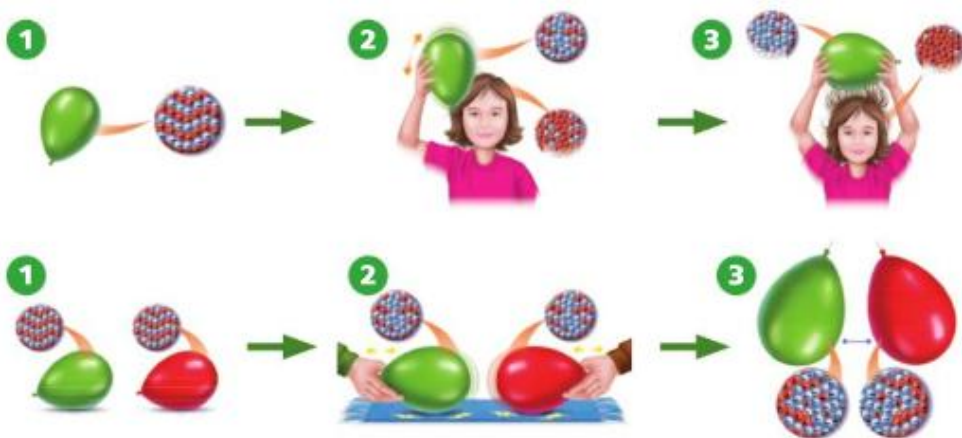
We are manually moving electrons from one material to another.

The papers stick to the pen because the positive charge of the papers attract electrons from the pen (after rubbing it, the pen is negatively charged).



Optional: If you have balloons at home you can also try the two experiments that appear on the Natural Science book (page 116).

Electrically charged objects **attract** or **repel** each other, depending on their charges.



As the hair is positively charged and the balloon negatively charged, both objects **attract**.

As both balloons are negatively charged, they **repel** each other.