

Static Electricity Answers

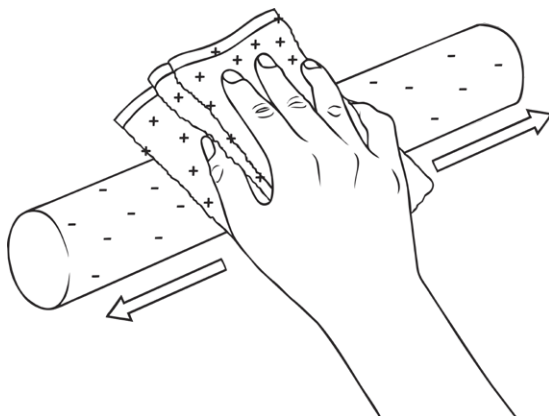
1. Use the words from the box to complete the gaps in the paragraph below. [13]

ATOMS contain **POSITIVE** charges and **NEGATIVE** charges. The positive charges are called **PROTONS**. The negative charges are called **ELECTRONS**. Electrons can **MOVE**, however the positive charges are **FIXED**.

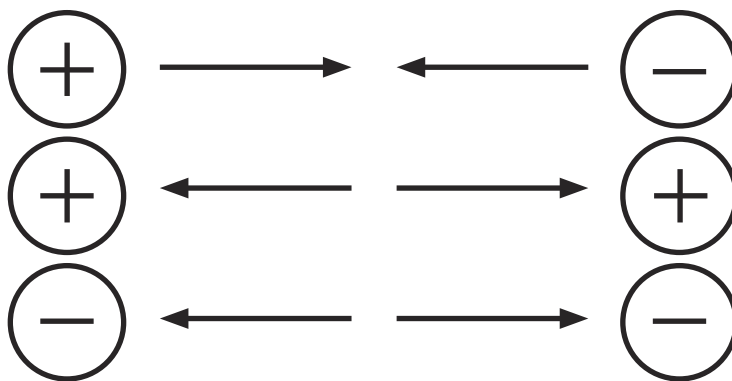
If two **INSULATING** objects are rubbed together the force of **FRICTION** can cause the electrons to be scraped off one object and left on the other object.

The object which **GAINS** electrons becomes negatively charged. The object which **LOSES** electrons becomes positively charged. The two objects will have **EQUAL**, but **OPPOSITE** charges.

2. Label the charges on the cloth and the rod using a + for a positive charge and a – for a negative charge. [2]



3. Draw arrows between the pairs of particles to show which way they will move when they are within their electric fields. [3]



4. Describe the movement of charged particles, as you have labelled in question 3. [2]

opposite charges attract

same/like charges repel