

Diagrams to show how a polyethylene vinyl strip becomes negatively charged by friction with fur.



Diagrams to show how a clear acetate strip becomes positively charged by friction with paper.



NOTE: Only the _____ move during the transfer of electric charge on an atom.
The _____ remain in their original location at the centre of the atom.

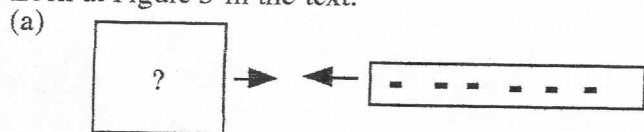
ELECTROSTATIC SERIES: is used to determine the charge produced on each substance when any two substances are rubbed together.

(weak hold on electrons)

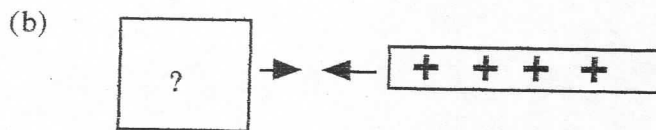
- acetate
- glass
- wool
- cat's fur, human hair
- calcium, magnesium, lead
- silk
- aluminum, zinc
- cotton
- paraffin wax
- ebonite
- polyethylene (plastic)
- carbon, copper, nickel
- rubber
- sulphur
- platinum, gold

(strong hold on electrons)

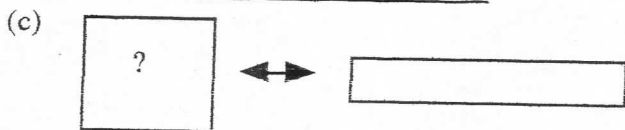
Look at Figure 3 in the text:



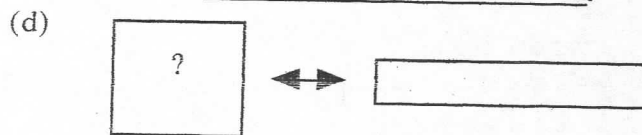
The object being tested could be _____ or _____.



The object being tested could be _____ or _____.



The object being tested must be _____.



The object being tested must be _____.

Static Electricity and Current Electricity:

Electricity Type	Definition	Characteristics

Practice: For each of the following, identify the charge as either positive, negative or neutral.

1 _____

2 _____

3 _____

4 _____

5 _____

6 _____

7 _____

8 _____

Determine the charge on each of the following when they are rubbed together.

Substance	positive charge	negative charge
glass and silk		
plastic & wool		
silk and cotton		