

Electrostatics Questions

1. The Van de Graaff-developer is an appliance that builds up a large electrical charge in the dome (sphere). Charge is built up by:
 - A. Friction
 - B. Polarisation
 - C. The magnetic effect
 - D. Static electricity

Choose the correct answer.

2. During a practical demonstration Miss Du Toit uses a ruler that is negatively charged when it is rubbed against her hair. She holds the ruler above a few pieces of paper and the paper is attracted to the ruler. Explain.
3. Explain what happens when a sprinkler squirts out water following electrostatic forces.
4. Why does your hair rise when you take of a jersey?
5. Draw a descriptive sketch about why a water jet will bend towards a charged ruler.