

# Electromagnets

## 2. Current

### CONCEPT 4

### TEST YOURSELF

## ELECTRIC FIELDS

### KNOW

- Q1 Which of these statements best describes an electric field:
- A An area around a charged object that can repel another uncharged object
  - B An area around a charged object that can attract another charged object
  - C An area around a charged object that can attract or repel charged objects and attract uncharged objects
  - D An area around a charged object that can attract or repel uncharged objects and attract charged objects

### APPLY

- Q2 Why the electrostatic force is called a 'non-contact' force.
- Q3 Two identical nylon rods are rubbed by the same duster. One is rubbed for 10 seconds. The other is rubbed for 1 minute. The first rod can pick up small bits of paper from 5cm away, the second rod can only pick up small bits of paper when 1cm away.

Why did the second rod pick up small bits of paper when closer than the first rod.

### EXTEND

- Q4 Draw a labelled diagram to show how a positively charged rod can attract a trickle of water.