

2 A student uses iron filings to investigate the magnetic field pattern around a bar magnet.

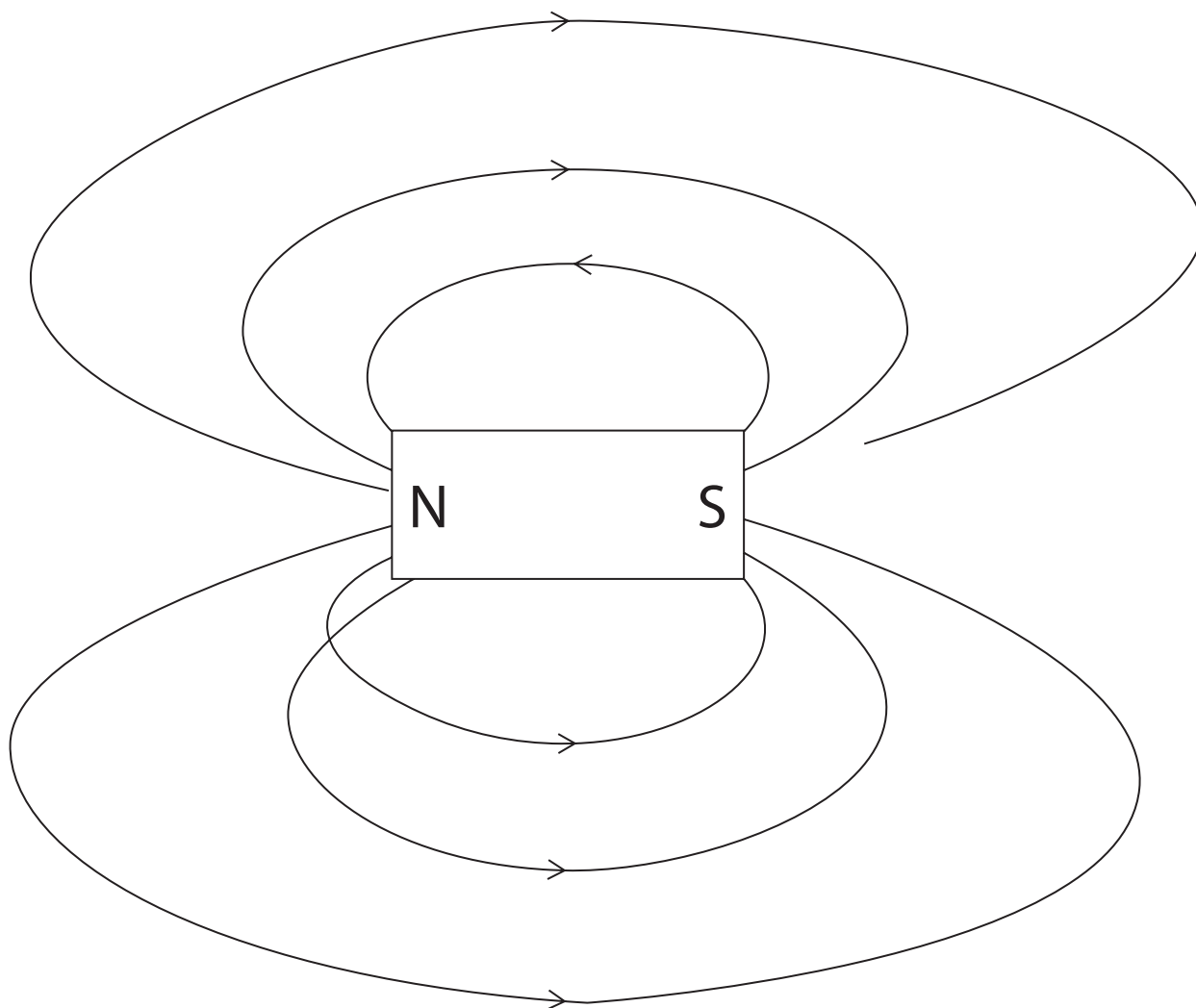
(a) Name the apparatus that the student could use to find the direction of the field lines.
(1)

(b) The student draws a diagram of the magnetic field pattern of the magnet.

The student makes three mistakes.

Draw a circle around each mistake on the diagram.

(3)



DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA



(c) The magnet is made of a magnetically hard material.

Describe what is meant by the term **magnetically hard**.

(2)

(Total for Question 2 = 6 marks)

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA



P 6 7 1 5 9 A 0 7 2 8