

## Magnetism

- ① Complete the sentence. The poles of a magnet are the places where: (1 mark, ★★)

the magnetic fields are the strongest
the field lines are the furthest apart
the magnetic fields are the weakest
flux lines overlap


### NAILIT!

Make sure you learn that magnetic materials are iron, steel, cobalt and nickel.

- ② a What is an induced magnet? (2 marks, ★★★)

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- b What kind of force always exists between a permanent and an induced magnet? (1 mark, ★★★)

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- c Describe a simple test to check if a material is an induced or permanent magnet. (3 marks, ★★★)

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- ③ Draw the field lines on the following magnet combinations. (6 marks, ★★★)

a



b



### DO IT!

The direction of a magnetic field at any point is given by the direction of the force that would act on another north pole placed at that point. Remember north pole really means north-seeking pole.