

Q1. (2018)

0 2

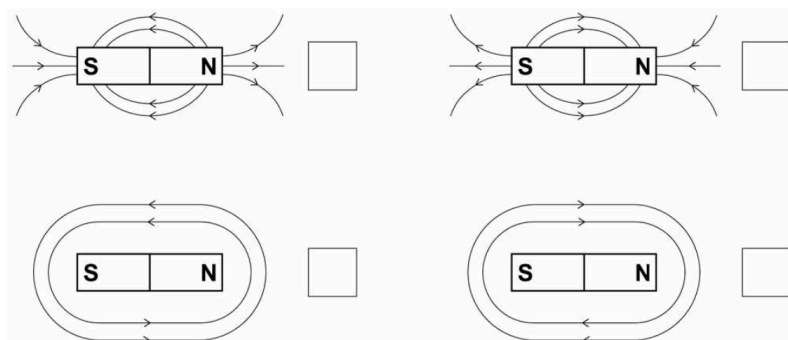
A magnet produces a magnetic field.

0 2 . 1

Which diagram shows the magnetic field pattern around a bar magnet?

[1 mark]

Tick **one** box.



Q2. (2018)

0 2 . 2

Figure 3 shows three metal blocks.

The blocks are not labelled.

One block is a permanent magnet, one is iron and one is aluminium.

Figure 3



Describe how another permanent magnet can be used to identify the blocks.

[3 marks]

Q3. (2020)

0 1

Figure 1 shows five different metal samples.

Figure 1



0 1 . 1

A student placed a magnet close to each metal sample.

Describe what happened.

[2 marks]

Q4. (2020)

Figure 2 shows a paper clip being attracted to a permanent magnet.

Figure 2



0 1 . 2

The paper clip in Figure 2 is not a permanent magnet.

Explain what would happen if the paper clip was removed and brought close to the south pole of the permanent magnet.

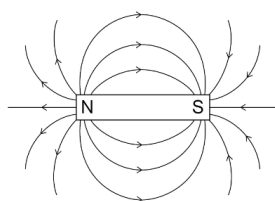
[2 marks]

Q5. (2021)

0 4

Figure 4 shows the magnetic field pattern around a permanent magnet.

Figure 4



a)

0 4 . 1

Where is the magnetic field of the magnet the strongest?

[1 mark]

b)

0 4 . 2

How does Figure 4 show that the strength of the magnetic field is not the same at all places?

[1 mark]

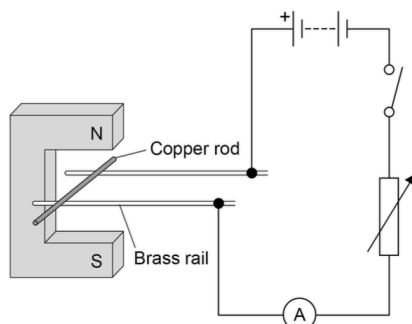
Q6. (2023)

0 4

A teacher demonstrated the motor effect.

Figure 5 shows the equipment used. The equipment includes a permanent magnet.

Figure 5



0 4 . 4

The magnet used in the demonstration was a permanent magnet.

Figure 6 shows an iron bar and a permanent magnet.

Figure 6



Describe how the permanent magnet could be used to test if the iron bar is also a permanent magnet.

[2 marks]

Q7. (2023)

0 4 . 5 Figure 7 shows a magnetic compass used by walkers.

Figure 7



Explain how a magnetic compass provides evidence that the Earth has a magnetic field.

[2 marks]