

4 A student uses an electromagnet to pick up small pieces of metal made from iron and steel.

(a) Describe the construction of an electromagnet.

You may draw a diagram to help your answer.

(3)

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- (b) When the student turns off the electromagnet, he observes that the pieces of steel remain on the electromagnet but the pieces of iron fall off.

Explain this observation.

(3)

(Total for Question 4 = 6 marks)

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