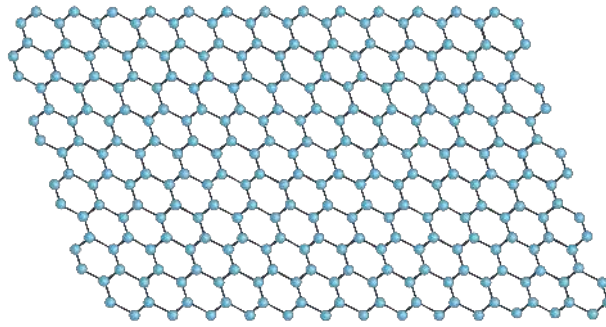


0	1
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The diagram shows the structure of a material called graphene. It is made of a single layer of carbon atoms.



0	1
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1

Use your knowledge of carbon structures to explain why graphene can conduct electricity. **[3 marks]**

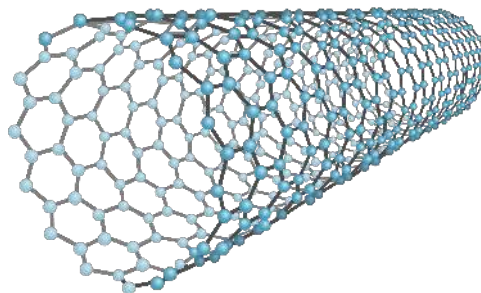
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0	2
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The diagram shows the structure of a nanotube. Nanotubes are made of hexagonal rings of carbon atoms.



Nanotubes are very strong and so could be used to make objects like tennis rackets.

0	2
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 .

1

Explain why nanotubes are strong. **[3 marks]**

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(Total 6 marks)

End