

Grade Nine Guides

GCSE CHEMISTRY

Paper 1

BONDING, STRUCTURES & PROPERTIES OF MATTER EXAM QUESTIONS

- Exam questions per topic

Aiming at grade 8/9



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<p>Bonding, structure and properties of matter</p>	<p>➤ Give one limitation of using a dot and cross diagram to represent an ammonia molecule [1]</p> <p>➤ Give two limitations of this simple particle model for hydrogen gas. [2 marks]</p> <p>➤ The ball and stick model is not a true representation of the structure of potassium sulphide. Give one reason why [1]</p> <p>➤ Explain why ammonia has a low boiling point [3]</p> <p>➤ Explain how electricity is conducted in a metal [4]</p>	
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| | <ul style="list-style-type: none">➤ Explain why metals can be shaped[2] | |
| | <ul style="list-style-type: none">➤ What why does glass melt at a lower temperature than silicon dioxide [1] | |
| [3] | <ul style="list-style-type: none">➤ describe the structure of a metal | |
| [2] | <ul style="list-style-type: none">➤ Why is graphite used in pencils | |
| [4] | <ul style="list-style-type: none">➤ Compare the structure of diamond and graphite | |
| [4] | <ul style="list-style-type: none">➤ Compare alloys to metals, why are alloys hard | |
| [3] | <ul style="list-style-type: none">➤ Evaluate the use of nanotechnology | |
| [2 marks] | <ul style="list-style-type: none">➤ Explain why carbon nanotubes conduct electricity | |
| [1] | <ul style="list-style-type: none">➤ Molecules such as see 70 can be used in medicine to move drugs around the body. Suggest one reason why the C70 molecule is suitable for this use. | |
| | <ul style="list-style-type: none">➤ Explain why graphite is a good electrical conductor and is soft and | |

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	<p>slippery</p> <p>[6]</p> <ul style="list-style-type: none">➤ Define isotope [2]➤ (copper, iron, magnesium and zinc). Describe a method to find the position of an unknown metal in this reactivity series. Your method should give valid results. <p>[4 marks]</p>	
	<ul style="list-style-type: none">➤ Compare the structure and bonding of the three compounds: box • carbon dioxide • magnesium oxide • silicon dioxide. <p>[6 marks]</p>	

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