

Grade Nine Guides

GCSE CHEMISTRY

Paper 2

Using Resources

EXAM QUESTIONS

- Exam questions per topic

Aiming at grade 8/9



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Using resources	<p>➤ how can water be tested to show that it is pure</p> <p>[2]</p> <p>➤ Hydrus copper sulphate must be heated all the time for the reaction to work what type of reaction is this</p> <p>➤ Anhydrous copper sulphate can be used to test for water, what two things will happen when water is added</p> <p>➤ State one advantage of adding <u>fluorine</u> to water</p> <p>➤ how can a student show the filtered water contain dissolved salts without using a chemical test</p> <p>➤ explain why water for drinking is sterilised and Explain why water for</p>	
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- drinking is sterilised and filtered[2]
- > What are the two main steps to treat water from reservoirs

[3]

- > Describe how sewage is treated to remove organic matter

[4]

- > Explain why the groundwater requires UV light exposure before the water is safe to drink

[2]

- > Suggest what is meant by pure water
- > What is in water philtres to remove the hardness from water
- > Why is distillation not an economic method of drinking water
- > State one benefit of drinking hard water

- > Required practical: water purification part a analysing water sample

- > part b: Purifying water with distillation

- > Explain how potable water is produced from fresh water

[4 marks]

- > Evaluate 2 methods for producing a large mass of ammonia sulphate

- > Explain how the ammonia produced is separated from the unreacted nitrogen and hydrogen

[2]

- > Temperature of 450 degrees, pressure of 200 atmospheres, the presence of an iron catalyst. Explain why these conditions are chosen for economical production of ammonia in

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the Haber process

[6]

- Evaluate the use of glass for milk bottles compared with the use of a polymer for milk bottles. Use features of life cycle assessments in your answer

[6]

- Suggest two pieces of information about energy usage which would help to produce a complete life cycle assessment (LCA) for the three food plate materials.

[2 marks]

- Describe how ceramic food plates are produced from clay.

[2 marks]

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