

20 things YOU can do to ensure success in GCSE Chemistry

<p>1. Draw and label the ionic bonding of potassium and fluorine</p>	<p>2. List the properties giant ionic structures</p>	<p>3. Write a step by step guide of how to draw a covalent bond. Draw and learn the following H_2, Cl_2, O_2, CH_4, N_2, NH_3 and HCl</p>	<p>4. Draw a diagram to show how atoms are arranged in a metal. Use to explain why metals are able to be bent and shaped, and why they can conduct electricity</p>	<p>5. Find out 3 giant covalent structures. print a picture and list their properties</p>
<p>6. Find out what Nitinol is and some of its uses (Triple only)</p>	<p>7. State the differences between thermosetting and thermosetting polymers. (Triple only)</p>	<p>8. Go to Quizlet class and do the module 1 revision flashcards: https://quizlet.com/classes/AndyD1000/</p>	<p>9. 100 quick questions and answers are here: https://www.youtube.com/watch?v=qWP2ky9mv6o</p>	<p>10. Calculate the relative formula mass of $CuSO_4$, $CaCO_3$, H_2O, CH_4 If you can't do it, see Q9</p>
<p>11. Produce a guide for Yr8 to carry out separation techniques: paper chromatography, filtration, distillation, evaporation</p>	<p>12. Explain using collision theory how each of the following increase the rate of a reaction: Temperature, surface area, concentration, catalysts and pressure</p>	<p>13. Complete a Chemistry Jigsaw (Home Access / Science Resources / Dr Dickenson/ chemistry jigsaws)</p>	<p>14. Draw a timeline for the discovery of the atom, including scientists names, dates and experiments</p>	<p>15. List the stages of how to make copper sulfate from sulfuric acid and copper carbonate</p>
<p>16. Sketch a diagram of the electrolysis of copper chloride (higher include half equations)</p>	<p>17. Google, print and annotate a diagram of the extraction of aluminium (higher include half equations)</p>	<p>18. Watch a YouTube clip of the electrolysis of brine https://www.youtube.com/watch?v=BUvnuUdtwqo What are the 3 products, and what are they used for</p>	<p>19. Do a mind map of exothermic and endothermic reactions to include uses, graphs and calculations.</p>	<p>20. watch this video https://www.youtube.com/watch?v=fgyVZJDonWc Give advantages and disadvantages of instrumental methods of analysis such as gas chromatography and mass spectrometry (triple)</p>

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