

Independent Scholarship Award: A Level Chemistry		
Bronze	Silver	Gold
<ol style="list-style-type: none"> 1. Work through the exercises (sections 1, 2, 3, 4ab, 5, 7, 8, 9 and 11a) in Edexcel's "Moles, Formulae and Equations" (found on Moodle), ensure that you can rearrange any algebraic equation to change the subject as required. Keep a record of these and make a record of those you have difficulty with. 2. Use the same workbook to practice chemical equations in section 6. 3. Look back at Unit 3 in your GCSE book, can you draw dot-and-cross diagrams for any ionic or covalent substance? Eg NaCl, H₂O, CH₄, CH₃OH, MgO, N₂, CaF₂, ethene, ethanoic acid, K₂S. 4. Can you explain which of the substance in 3 (above) have low/high melting points, conduct electricity. 	<ol style="list-style-type: none"> 1. From the workbook (in Bronze) and your GCSE notes on Ionic Equations (eg Unit 5) do the equations in section 10. 2. If you did the Separate Chemistry GCSE then sections 4c-g and 11b should be familiar, if you did the Trilogy GCSE, then use the information give and attempt the same. 3. Find the BBC documentary series "Chemistry: A Volatile History" (3 episodes) and watch it, especially episode 2 (The order of the Elements) as this will feature in the course. 	<ol style="list-style-type: none"> 1. The Royal Society of Chemistry has published a series of quizzes "Transition Skills Starters for Ten". Complete the series <ul style="list-style-type: none"> - 1 Basic Chemistry competencies - 2 Basic Maths competencies - 3 Basic Practical competencies