

<p><b>6<sup>th</sup> Form Preparation work for A Level Chemistry</b></p>	 <p><b>1 - Complete</b> a table comparing the different types of bonding; ionic, covalent, metallic. Include the structure of each, an example of a substance that displays this type of bonding and information about their properties. Use the link below to BBC Bitesize to help you. <b>Bonding, structure and the properties of matter</b> <a href="https://www.bbc.co.uk/bitesize/topics/z33rrwx">https://www.bbc.co.uk/bitesize/topics/z33rrwx</a></p>	 <p><b>2 - Read</b> the article and write a report briefly outlining why each scientist is so important. <b>6 women who are changing chemistry as we know it</b> <a href="https://www.sciencefocus.com/science/amazing-women-in-chemistry/">https://www.sciencefocus.com/science/amazing-women-in-chemistry/</a></p>	 <p><b>3 - Listen</b> to an episode of this podcast, Chemistry for your life. Summarise what you learned and be prepared to share with the class.. <b>Chemistry for your life</b> <a href="https://chemforyourlife.transistor.fm/">https://chemforyourlife.transistor.fm/</a></p>
 <p><b>4 - Read</b> about some of the careers that studying chemistry could lead you into. Create a shortlist of some possible career pathways that interest you. <b>A future in chemistry</b> <a href="https://edu.rsc.org/future-in-chemistry/career-options">https://edu.rsc.org/future-in-chemistry/career-options</a></p>	 <p><b>5 - Watch</b> the Ted talk video CRISPR. Consider the uses of CRISPR and the possible ethical implications that may arise. <b>How CRISPR let us edit our DNA.</b> <a href="https://www.ted.com/talks/jennifer_doudna_how_crispr_lets_us_edit_our_dna?language=en">https://www.ted.com/talks/jennifer_doudna_how_crispr_lets_us_edit_our_dna?language=en</a></p>	 <p><b>6 - Complete</b> the 'My skills My life' quiz to help you identify your personality type and to help you find role models with successful STEM careers. <b>My skills my life</b> <a href="https://www.wisecampaign.org.uk/how-to-get-involved/my-skills-my-life/">https://www.wisecampaign.org.uk/how-to-get-involved/my-skills-my-life/</a></p>	 <p><b>7 - Complete</b> a timeline to visually show the history of the development of the atomic model.</p>
 <p><b>8 - Watch</b> the Ted talk about the Haber process. Is it the most important discovery of the last century? Explain why this is arguably correct. <b>The chemical reaction that feeds the world.</b> <a href="https://www.youtube.com/watch?v=o1_D4FscMnU">https://www.youtube.com/watch?v=o1_D4FscMnU</a></p>	 <p><b>9 -Research</b> Find out about a scientist that is not well known, perhaps from an under-represented group or a woman who was overlooked. Write a profile of the scientist including information about their background, their work, why you have chosen them. You may want to find out about someone who has similar interests as you or a similar background or culture or ethnicity. You may even want to write about a family member!</p>	 <p><b>10 - Watch</b> the TED talk and consider the role chemistry plays in sustainability. <b>Fighting pollution with green chemistry</b> <a href="https://www.ted.com/talks/dr_sumaira_iawad_fighting_pollution_with_green_chemistry">https://www.ted.com/talks/dr_sumaira_iawad_fighting_pollution_with_green_chemistry</a></p>	