



## SCIENCE YEAR PLANNER (LTP) YEAR 12 A LEVEL CHEMISTRY – YEAR 1



| Term     | Learning content/skills   | Assessment Schedule*   | Home Learning Support<br>(How students can extend learning in addition to homework)   |
|----------|---|--|---|
| Autumn 1 | Teacher 1 – Atoms and reactions – PAG 1<br><br>Teacher 2 – Electrons, bonding and structure   | Atoms and reactions  | <ul style="list-style-type: none"><li>● Access to past paper questions on OCR website (using new specification and old F321 and F322 papers)</li><li>● Access to all lesson resources via Firefly</li><li>● <a href="http://www.chemguide.co.uk">www.chemguide.co.uk</a></li><li>● <a href="http://www.physicsandmathstutor.com">www.physicsandmathstutor.com</a></li></ul> |
| Autumn 2 | Teacher 1 – Complete atoms and reactions – PAG 2<br><br>Part 2.3 The periodic table and energy (The periodic table)<br><br>Teacher 2 – Complete electrons, bonding and structure<br><br>Part 2.3 The periodic table and energy (The periodic table) | Amount of substance test<br><br>Electrons, bonding and structure<br><br>Acid, base and redox reactions<br><br>Group 2, halogens and qualitative analysis<br><br>Periodic table and periodicity | <ul style="list-style-type: none"><li>● Access to past paper questions on OCR website (using new specification and old F321 and F322 papers)</li><li>● Access to all lesson resources via Firefly</li><li>● <a href="http://www.chemguide.co.uk">www.chemguide.co.uk</a></li><li>● <a href="http://www.physicsandmathstutor.com">www.physicsandmathstutor.com</a></li></ul> |
| Spring 1 | Teacher 1 – Complete 2.3 The periodic table and energy (physical chemistry) – PAG 3 and PAG 4<br><br>Teacher 2 - Core organic chemistry   | Enthalpy changes<br><br>Reaction rates and equilibria<br><br>Basic concepts<br><br>Hydrocarbons  | <ul style="list-style-type: none"><li>● Access to past paper questions on OCR website (using new specification and old F321 and F322 papers)</li><li>● Access to all lesson resources via Firefly</li><li>● <a href="http://www.chemguide.co.uk">www.chemguide.co.uk</a></li><li>● <a href="http://www.physicsandmathstutor.com">www.physicsandmathstutor.com</a></li></ul> |

\*All assessments may be subject to alteration to best suit the learning needs of students.

| Term     | Learning content/skills  | Assessment Schedule*                        | Home Learning Support<br>(How students can extend learning in addition to homework)  |
|----------|--|---|--|
| Spring 2 | <p>Teacher 1 – Revision of AS</p> <p>Teacher 2 - Complete core organic chemistry – PAG 5 and PAG 6</p> | Organic synthesis and analytical techniques | <ul style="list-style-type: none"> <li>• Access to past paper questions on OCR website (using new specification and old F321 and F322 papers)</li> <li>• Access to all lesson resources via Firefly</li> <li>• <a href="http://www.chemguide.co.uk">www.chemguide.co.uk</a></li> <li>• <a href="http://www.physicsandmathstutor.com">www.physicsandmathstutor.com</a></li> </ul> |
| Summer 1 | <p>Teacher 1 - Revision of AS</p> <p>Teacher 2 – Revision of AS</p>                                    | Year 1 exam                                 | <ul style="list-style-type: none"> <li>• Access to past paper questions on OCR website (using new specification and old F321 and F322 papers)</li> <li>• Access to all lesson resources via Firefly</li> <li>• <a href="http://www.chemguide.co.uk">www.chemguide.co.uk</a></li> <li>• <a href="http://www.physicsandmathstutor.com">www.physicsandmathstutor.com</a></li> </ul> |
| Summer 2 | Teacher 1 and 2 – Transition elements  | Transition elements                         | <ul style="list-style-type: none"> <li>• Access to past paper questions on OCR website (using new specification and old F321 and F322 papers)</li> <li>• Access to all lesson resources via Firefly</li> <li>• <a href="http://www.chemguide.co.uk">www.chemguide.co.uk</a></li> <li>• <a href="http://www.physicsandmathstutor.com">www.physicsandmathstutor.com</a></li> </ul> |