

## Key Stage 5 Curriculum Map 2019 - 2020

### Term 1

Subject: Chemistry		Year Group: 12
Week/Date	Focus/Topic	
1 Sept 2 <sup>nd</sup> -5 <sup>th</sup>	<ul style="list-style-type: none"> <li>● Baseline assessments, curriculum orientation and expectations</li> </ul>	
2 Sept 8 <sup>th</sup> -12 <sup>th</sup>	<ul style="list-style-type: none"> <li>● Fundamental particles</li> <li>● Mass number and isotopes</li> <li>● Electron configuration</li> </ul>	
3 Sept 15 <sup>th</sup> -19 <sup>th</sup>	<ul style="list-style-type: none"> <li>● Relative atomic and molecular mass</li> <li>● The mole and Avogadro constant</li> </ul>	
4 Sept 22 <sup>nd</sup> -26 <sup>th</sup>	<ul style="list-style-type: none"> <li>● The ideal gas equation</li> <li>● Empirical and molecular formula</li> </ul>	
5 Sept 29 <sup>th</sup> -Oct 3 <sup>th</sup>	<ul style="list-style-type: none"> <li>● Ionic bonding</li> <li>● Nature of covalent and dative covalent bonds</li> </ul>	
6 Oct 6 <sup>th</sup> -10 <sup>th</sup>	<ul style="list-style-type: none"> <li>● Metallic bonding</li> <li>● Bonding and physical properties</li> </ul>	
7 Oct 13 <sup>th</sup> -17 <sup>th</sup>	<ul style="list-style-type: none"> <li>● Shapes of simple molecules and ions</li> <li>● Bond polarity</li> </ul>	
8 Oct 22 <sup>nd</sup> -24 <sup>th</sup>	Mid Term Break	
9 Oct 27 <sup>th</sup> -Oct 31 <sup>st</sup>	<ul style="list-style-type: none"> <li>● Forces between molecules</li> <li>● Enthalpy change</li> </ul>	
10 Nov 3 <sup>rd</sup> -7 <sup>th</sup>	<ul style="list-style-type: none"> <li>● Calorimetry</li> <li>● Application of Hess's law</li> </ul>	

<p>11 Nov 10<sup>th</sup>-14<sup>th</sup></p>	<ul style="list-style-type: none"> <li>• Bond enthalpies</li> <li>• Collision theory</li> <li>• Maxwell-Boltzmann distribution</li> <li>• Effect of temperature, concentration, pressure and catalyst on the rate of reaction</li> </ul>
<p>12 Nov 17<sup>th</sup>-21<sup>st</sup></p>	<ul style="list-style-type: none"> <li>• Chemical equilibria and Le Chatelier's principle</li> </ul>
<p>13 Nov 24<sup>th</sup>-28<sup>th</sup></p>	<ul style="list-style-type: none"> <li>• Inorganic chemistry</li> <li>• Group 7</li> </ul>
<p>14 Dec 1<sup>st</sup>-5<sup>th</sup></p>	<p><b>Assessment Weeks</b></p>
<p>15 Dec 8<sup>th</sup>-12<sup>th</sup></p>	
<p>Winter Break: December 13<sup>th</sup> – January 2<sup>nd</sup></p>	