Year Group: 12		Subject: Chemistry	Term: Summer 2021		
Торіс		Key Learning po	pints	Assessment	
Further equilibrium	<ul> <li>End Point: To understand the use of equilibrium constants, be able to calculate them and understand the factors affecting equilibrium constants.</li> <li>Deduce an expression for Kc for homogeneous and heterogeneous reactions</li> <li>Use expressions for Kc to calculate its value and deduce the appropriate units</li> <li>Deduce an expression for Kp for homogeneous and heterogeneous reactions</li> <li>Use expressions for Kp to calculate its value and deduce the appropriate units</li> <li>Describe and explain the effects of temperature on the position of equilibrium and therefore on the equilibrium constant for both exothermic and endothermic reactions</li> <li>Explain why changes in concentration, pressure or addition of catalysts do not affect the equilibrium constant for a reaction</li> </ul>			<ul> <li>Students will be formatively assessed during each topic by past paper questions completed in lesson time.</li> <li>Students will complete homework assignments as</li> </ul>	
Further kinetics	End Point: To both continuou Under: Be abl chang Be abl rate ec homog Recall Be abl Deduct initial r Identif Deduct Use th Use th	understand how to identify orders of reactions and is rate methods and initial rate methods. stand the term "rate of reaction" le to select and explain suitable practical technique es in mass, colourimetry, titrations, etc. le to define the following terms; rate equation, orde quation, overall order of a reaction, rate constant, ra- genous catalysis, heterogenous catalysis, autocata the methods that can be used to investigate reacti- le to calculate; rate of reaction, half-lives. the order with respect to a substance and for an rate methods, rate-concentration graphs. by the rate determining step for a reaction from its ra- te the reaction mechanism for a reaction from its ra- te Arrhenius equation to explain the effect of temper raphical methods to deduce the activation energy for	select appropriate experimental techniques for s for obtaining rate data, e.g. evolved gas volumes, r of reaction with respect to a substance within a ate determining step, half-life, activation energy, lysis. on rates overall reaction from: concentration-time graphs, ate equation te equation te equation and balanced symbol equation rature on a rate constant. or a reaction from experimental data.	<ul> <li>Teachers will provide students with targeted feedback, based on their test performance.</li> <li>During this term students will complete their UCAS prediction exams, which will cover content from topics 1- 10 from the book 1 textbook provided for the course.</li> </ul>	