Y12 – Rates checklist

		In Notes	Revised
In this module you are expected to be able to			
Define:			
 Rate of reaction 			
o Catalyst			
o Order			
Overall Order			
 Rate constant, k 			
o Half life			
 Rate determining step 			
 Use collision theory to explain the effect of surface area a reaction rate in terms of collision frequency. 	and increased concentration of chemicals on		
 Sketch mass/time, volume/time, concentration/time graph produces products, or uses reactants up. Explain the shaph 			
Explain the effect of temperature on reaction rate using a	and referencing the Boltzmann distribution.		
 Explain the difference in the way heterogeneous and hom 	nogeneous catalysts work, and show how		
catalysts affect reaction rate using and referring to a Boltz catalysts important for a sustainable future.	zmann distribution. Explain how this makes		
 Give examples of ways to measure reaction rate and intertangents to calculate rate. 	rpret and process results, including the use of		
 Be able to deduce the order of a reaction by inspection of and by continuous monitoring of rates. 	f initial rates data, by inspection of the rate law,		
 Calculate the rate constant, k, from initial rates data, from of rate vs concentration, and from half-life. Be able to det 			
 Explain the proper use of colorimetry including the use of reaction. 	calibration curve to monitor the rate of a		
 For a multi-step reaction, determine the rate determining from the balanced equation and the rate equation. 	g step, and plausible other steps in a mechanism		
 Explain how temperature affects rate constant. Use the A data, and manipulate the equation. 	rrhenius equation to determine Ea from rate		
re-test Evaluation			<u> </u>
I have			
Updated my yellow book notes			
Ensured I understand all of my notes			
Looked on the open drive for additional work			
Asked my teacher for guidance			
Confidence rating	I'm doomed! = +	++ l am t	the BOSS!