

The Rate and Extent of Chemical Change

	Se	lf-assessmo	ssment	
Specification statement These are the bits the exam board wants you to know, make sure you can do all of these	First review 4-7 months before exam	Second review 1-2 months before exam	Final review Week before exam	
I can calculate the mean rate of a reaction	◎ ⊜ ⊗	◎ ⊜ ⊗	© @ Ø	
I can recall way to measure the quantity of a reactant of product	⊕ ⊕ ⊗	◎	©	
I can recall the units for measuring rate of reaction	⊕ ⊕ ⊗	◎	©	
I can give the quantity of a reactant in moles	© © ©	◎ ⊜ ⊗	© @ 8	
I can draw a graph to show the progress of a reaction by showing the reactant being used up or a product being formed	© © 8	© © Ø	© © 8	
I can draw tangents to curves and interpret the slope of these	◎ ⊜ ⊗	◎ ⊜ ⊗	© @ Ø	
I can calculate the gradient of a curve from the tangent	⊕ ⊕ ⊗	◎ ⊜ ⊗	⊕ ⊕ ⊜	
I can describe how to investigate the rate of a reaction	⊕ ⊕ ⊗	◎ ⊜ ⊗	⊕ ⊕ ⊜	
I can describe and explain how a change in temperature will affect a rate of a reaction	◎	◎ ≌ ⊗	◎ ⊜ ⊗	
I can describe and explain how a change in pressure will affect a rate of a reaction	© © 8	© © 8	© © 8	
I can describe and explain how a change in concentration will affect a rate of a reaction	© © 8	© -	© © 8	
I can describe and explain how a change in surface area will affect a rate of a reaction	© © 8	© © 8	© © 8	
I can describe and explain how catalyst will affect a rate of a reaction	© © 8	© © 8	© © 8	
I can use collision theory to explain how different factors (temperature/ pressure/ concentration/ surface area) will affect the rate of a reaction	© © 8	© © 8	© © 8	
I can describe how a catalyst lowers activation energy	◎ ≌ ⊗	© ⊜ ⊗	⊕ ⊕ ⊜	
I can draw an energy profile diagram for a catalysed and an uncatalysed reaction	◎ ⊜ ⊗	◎ ⊜ ⊗	© (8	
I can use symbols to represent a reversible reaction	◎ ⊜ ⊗	◎ ⊜ ⊗	© © 8	
I can describe what happens to ammonium chloride upon heating and cooling	© © 8	© © 8	© © 8	
I can describe what happens to copper sulfate upon addition and removal of water	© © 8	© © 8	© © 8	



I can describe what happens to the energy in a reversible reaction, where one direction is exothermic and the other is endothermic Higher tier only	© © 8	© © 8	© © 8
I can describe what is happening to the rate of reactions when they have reached equilibrium Higher tier only	◎ ⊕ ⊗	◎ ⊕ ⊗	© © 8
I can determine the effects that a change in temperature will have on the system, according to Le Chatelier's Principle Higher tier only	◎ ⊕ ⊗	◎ ⊕ ⊗	© © 8
I can determine the effects that a change in concentration will have on the system, according to Le Chatelier's Principle Higher tier only	© © 8	© © 8	© © 8
I can determine the effects that a change in pressure will have on the system, according to Le Chatelier's Principle Higher tier only	© © 8	© © 8	© © 8