## Chemical Reactivity Checklist



Use this alongside our Walkthrough Guides to tick off the concepts you're confident with to plan your study and find areas of improvement!

## **Reaction Rate**

- I can describe and explaincollision theory
- I can describe and explain the term activation energy
- I can describe and explain the effect that changing concentration has on reaction rate
- I can describe and explain the effect that surface area has on reaction rate
- I can describe and explain the effects that changing temperature has on the reaction rate
- I can describe and explain the effect that adding a catalyst has on the reaction rate

## **Equilibrium**

 I can describe what a two-way I can describe and explain the reaction is effects that adding a catalyst I can describe and explain the has on an equilibrium system term equilibrium I can describe and explain the I can construct an equilibrium effects that changing constant (K<sub>c</sub>) expression for a concentrations have on an given reaction equilibrium system I can explain the meaning of the I can describe and explain the value of K<sub>c</sub> for a given reaction effects that changing pressure O I can state Le Chatelier's has on an equilibrium system **Principle**  I can describe and explain the effects that changing temperature has on an equilibrium system **Acids and Bases** O I can define the term **weak** I can define an acid acid/base I can calculate the pH of a I can describe and explain what strong acid solution I can define a base makes a solution conductive I can calculate the pH of a and predict whether a solution strong base will be conductive or not I can identify conjugate I can compare and contrast the acid-base pairs in a given pH of a strong acid, weak acid, acid-base reaction solution strong base and weak base. I can define the term strong I can describe, explain and state

acid/base

the value of K<sub>w</sub>