

Year 12 Summer Term Curriculum Plan

Organic chemistry overview

This term year 12 students will review the year 12 content before moving onto year 13 content. Students will study kinetics, building upon their knowledge from the year 12 topic. This will include writing equations to calculate the rate of reaction introducing the term order of reaction and being able to determine this from a concentration-time graph. Students will consider the relationship between rate of reaction and temperature, activation energy, catalysis and mechanism.

Inorganic chemistry overview

This term year 12 will be starting content from the year 13 scheme of work, once a review of year 12 topics has been completed. This will include an introduction to the expressions for equilibrium constants for reversible reactions. Students need to be able to express equilibrium constants from the balanced symbol equation for a reaction, calculate the constants and explain the effects of changing the reaction conditions.

	Content covered by Mrs Parker-Webley	Content covered by Mr Osbourn
Week beginning 20/04/2020	<ul style="list-style-type: none">Paper 1 AS-level exam paper	<ul style="list-style-type: none">Review of Topic 7 Workshop
Week beginning 27/04/2020	<ul style="list-style-type: none">Review of paper 1 and year 12 content	<ul style="list-style-type: none">Review of Topic 8 Workshop & Paper 2
Week beginning 04/05/2020	<ul style="list-style-type: none">Commence topic 11 content for year 13 A-level contentExpressing and calculating the equilibrium constant, K_c	<ul style="list-style-type: none">Commence topic 16 content for year 13 A-level content16.1.1 & 16.1.2 Rate equation and order of reaction
Week beginning 11/05/2020	<ul style="list-style-type: none">Expressing and calculating the equilibrium constant, K_p	<ul style="list-style-type: none">16.1.3 Determining order
Week beginning 18/05/2020	<ul style="list-style-type: none">Calculating and describing the effects of changing conditions on the equilibrium constant and the position of equilibrium	<ul style="list-style-type: none">16.1.4 Rate Equation and Mechanisms
Week beginning 01/06/2020	<ul style="list-style-type: none">Topic 11 review	<ul style="list-style-type: none">16.1.5 & 16.1.6 Activation energy, catalysis and the effect of temperature
Week beginning 08/06/2020	<ul style="list-style-type: none">Topic 11 assessment	<ul style="list-style-type: none">Topic 16 Workshop review and revision
Week beginning 15/06/2020	<ul style="list-style-type: none">Topic 12: introduction to Bronsted-lowry theory	<ul style="list-style-type: none">Topic 16 Assessment
Week beginning 22/06/2020	<ul style="list-style-type: none">Explaining the relationship between hydrogen ion concentration and pH, calculations of pH for acids	<ul style="list-style-type: none">Topic 16 Assessment Feedback