

# A-level Chemistry

## Year 12 into Year 13

### Summer Independent Learning

Resources for this work will be provided in lessons during wc 26<sup>th</sup> June

This work is divided into main sections

- Review of Core Topics
- Review of Key Knowledge from Year 12
- Folder organisation

You should complete this work in full and bring it to your first Chemistry lesson of Year 13

#### Review of Core Topics

##### Amount of Substance

- Complete the 'Amount of Substance' summary sheets.
- You should attempt without your notes first. Then change colours of pen and use your notes to complete the bits that you struggled with.
- File in the 'Summary Sheets' section of your folder (see 'Folder Organisation' section below).

##### Bonding

- Complete the 'Bonding' summary sheets.
- You should attempt without your notes first. Then change colours of pen and use your notes to complete the bits that you struggled with.
- File in the 'Summary Sheets' section of your folder (see 'Folder Organisation' section below).

##### Kc and Equilibria

- Complete the 'Kc and Equilibria' summary sheets.
- You should attempt without your notes first. Then change colours of pen and use your notes to complete the bits that you struggled with.
- File in the 'Summary Sheets' section of your folder (see 'Folder Organisation' section below).

##### Energetics

- Complete the 'Energetics' summary sheets.
- You should attempt without your notes first. Then change colours of pen and use your notes to complete the bits that you struggled with.
- File in the 'Summary Sheets' section of your folder (see 'Folder Organisation' section below).

We will mark and correct these together in your first lesson back.

#### Review of Key Knowledge from Year 12

Review the information in the 'Key Knowledge from Year 12' booklet.

This contains the key basic content that you should be able to recall and apply.

You will be tested on this in your first lesson back and should expect to be able to recall this in full.

## Folder Organisation

You should have a single folder for Chemistry that you bring to every lesson. Reorganise this folder so that it contains the following work as outlined below.

### Section 1 – Current and Recent Topics

- Aldehydes, Ketones and Optical Isomerism
  - Notes
  - Any work that you completed in lesson
  - Exam question booklet
- Organic Analysis
  - Notes
  - Any work that you completed in lesson
  - Exam question booklet

### Section 2 – Review DIL

- This section should be empty for now

### Section 3 – Summary Sheets

- Core Topics
  - Amount of substance
  - Bonding
  - Energetics
  - Kc and Equilibria

### Section 4 – Assessments

- Progression Exam
  - Exam Paper and Improvements
- Cedar 4 (March 2023)
  - Exam Paper, Wrapper and Improvements
- Cedar 3 (January 2023)
  - Exam Paper, Wrapper and Improvements
- Cedar 2 (November 2022)
  - Exam Paper, Wrapper and Improvements
- Cedar 1 (Initial Assessment – October 2022)
  - Exam Paper, Wrapper and Improvements
- Diagnostic Tests 1 and 2

### Section 5 – Practical

- Exam Question Booklets for:
  - RP1 – Volumetric Analysis
  - RP2 – Calorimetry
  - RP3 and 7 – Methods of Measuring Rate (Part 1)
  - RP4 – Ion Tests
  - RP5 and RP10B – Distillation, Reflux and Purifying Organic Liquids
  - RP6 – Functional Group Tests

You should file all your other Chemistry work in separate folders at home. We recommend that you have three Chemistry folders at home, as follows:

- Core Topics
- Paper 1 Topics
- Paper 2 Topics