

Year 12 into Year 13 Summer Independent Learning

Resources for this work can be found in the 'Summer Independent Learning' folder on Teams

This work is divided into three main sections

- Core topic review (**compulsory** – approx. 4 hours)
- New topic – Period 3 elements and their oxides (**compulsory** – approx. 2.5 hours)
- Folder organisation (**compulsory** – approx. 30 min)
- Past paper practice (optional – approx. 3 hours)

You should bring this work to your first Chemistry lesson of Year 13

Core topic review (compulsory – approx. 4 hours)

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.
- Mark and correct in a third colour using the suggested answers.
- 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.
- Mark and correct in a third colour using the suggested answers.
- 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.
- Mark and correct in a third colour using the suggested answers.
- 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.
- Mark and correct in a third colour using the suggested answers.
- File in the 'Summary Sheets' section of your folder (see 'Folder Organisation' section below).

Period 3 elements and their oxides (compulsory – approx. 2.5 hours)

Task 1

- Read the 'Period 3 elements and their oxides' summary sheets
- Use the summary sheets to complete the 'Period 3 elements and their oxides' exam question booklet
- You may need to use the 'Periodicity' summary sheet for some questions
- Mark and correct after each question
- Use the 'Extra Notes' pages of the summary sheet to jot down any other things linked to this topic that you need to remember

Task 2

- There will be a quiz on this topic during your first lesson back.
- Use the resources provided to prepare for this quiz.
- There are additional practice questions available in the 'Summer Independent Learning' folder on Teams.

Folder organisation (compulsory – approx. 30 min)

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.

Front of folder

- Course handbook

Section 1 – Current Topic

- 'Periodicity' exam question booklet (from Year 12) – marked and corrected
- 'Period 3 elements and their oxides' exam question booklet – marked and corrected

Section 2 – Previous Topics

- Kc and Equilibria (from Year 12)
 - Kc and Equilibria notes booklet
 - Any work that you completed in lesson for Kc and Equilibria – marked, dated and with clear title
 - Kc and Equilibria exam question booklet – marked and corrected
- Organic Analysis (from Year 13)
 - Organic Analysis notes booklet
 - Any work that you completed in lesson for Organic Analysis – marked, dated and with clear title
 - Organic Analysis exam question booklet – marked and corrected

Section 3 – Summary Sheets

- Core Topics
 - Amount of substance – completed, marked, and corrected
 - Bonding – completed, marked, and corrected
 - Energetics – completed, marked, and corrected
 - Kc and Equilibria – completed, marked, and corrected
- Paper 1 Topics
 - Periodicity
 - Period 3 elements and their oxides
- Paper 2 Topics
 - Organic synthesis maps
 - Year 12 organic synthesis booklet
- Required Practicals
 - This sub-section should be empty for now

Section 4 – Review DIL

- This section should be empty for now

Section 5 – Assessments

- Cedar 5
 - Cedar 5 paper
 - Exam Wrapper and Key Points booklet
 - Cedar 5 improvements – marked and corrected

You should file all your other Chemistry work in separate folders at home.

You can organise these folders as you like, however, we recommend that you have three Chemistry folders at home, as follows:

- Core Topics, Required Practicals and Assessments
- Paper 1 Topics
- Paper 2 Topics

Past paper practice (optional – approx. 3 hours)

Task 1

- Complete the 'November 2021 – AS Paper 1' exam paper
- You should attempt without your notes first. Then change colours of pen and use your notes to complete the bits that you struggled with
- Mark and correct in a third colour using the mark scheme
- Please note that, at the time of writing, this paper is currently restricted by AQA and therefore you **must not** share the paper or mark scheme outside of New College – doing so would be academic misconduct

Task 2

- Complete the 'November 2021 – AS Paper 2' exam paper
- You should attempt without your notes first. Then change colours of pen and use your notes to complete the bits that you struggled with
- Mark and correct in a third colour using the mark scheme
- Please note that, at the time of writing, this paper is currently restricted by AQA and therefore you **must not** share the paper or mark scheme outside of New College – doing so would be academic misconduct