

## A Level Chemistry Summer Independent Learning Activity Y12 to Y13

Welcome to second year A Level Chemistry. Please complete the following tasks ready for your first day back at New College.

*It is recommended that you access and download all resources and print anything you need before you leave college for the summer*

Use the following link to access the folder, 'Summer Independent Learning Activity (Yr12-13)', on Moodle that contains the resources you will need for each task:

<https://moodle.nclt.ac.uk/mod/folder/view.php?id=113495>

### PART 1 – Physical and Inorganic Chemistry

*You must complete all of the work in this section and bring it to your lessons.*

#### Task 1 – Module 1.10 Kp

1. Refamiliarise yourself with your notes and booklets from module 1.6 Equilibria, Le Chatelier's and Kc.
2. Complete the three Equilibria and Kc **revision worksheets** and check your answers.
3. Using the resources provided in the folder on Moodle, **make notes on Kp**. Use the specification objectives and **checklist** to ensure you have included everything. The textbook chapter and video links are good places to start but you can use other textbooks, websites etc of your choice to find the information.
4. **Optional:** complete the work booklet. Check/correct your work using the answer booklet. *You may be directed to complete a different booklet by your own class teacher.*
5. Once you understand the topic, **complete the exam question booklet**.
6. **Mark and correct** your answers in the exam question booklet.

#### Task 2 – Module 2.4 Period 3 elements and their oxides

1. Refamiliarise yourself with your notes and booklets from module 1.3 Bonding and 2.1 Periodicity
2. Complete the three **revision worksheets** and check your answers.
3. Using the resources provided in the folder on Moodle, **make notes on Period 3 elements and their oxides**. Use the specification objectives and **checklist** to ensure you have included everything. The textbook chapter and video links are good places to start but you can use other textbooks, websites etc of your choice to find the information.
4. **Optional:** complete the work booklet. Check/correct your work using the answer booklet. *You may be directed to complete a different booklet by your own class teacher.*
5. Once you understand the topic, **complete the exam question booklet**.
6. **Mark and correct** your answers in the exam question booklet.

## PART 2 – Organic Chemistry

*It is highly recommended that you complete all of the work in this section and bring it to your lessons*

### Task 3 – Module 3.7 Optical Isomerism

1. Refamiliarise yourself with your structural and stereoisomers from module 1.1 Introduction to organic chemistry and 3.4 Alkenes
2. Complete the three **revision worksheets** and check your answers.
3. Using the resources provided in the folder on Moodle, **make notes on Optical Isomerism**. Use the specification objectives and **checklist** to ensure you have included everything. The textbook chapter and video links are good places to start but you can use other textbooks, websites etc of your choice to find the information.
4. **Optional:** complete the work booklet. Check/correct your work using the answer booklet. *You may be directed to complete a different booklet by your own class teacher.*