

VCE INDUCTION PACKAGE

UNITS 1 AND 2

CHEMISTRY



Dear students,

Welcome to Chemistry Units 1 and 2. We hope that you have a great year in Year 11 Chemistry. This is a challenging course with considerable assessment requirements. You will need to always keep up to date with the work and seek help from one of the Chemistry teachers when needed.

At the end of this booklet is a detailed description of the holiday homework requirements. All homework is due next year. Any late work will be given a NA (Not assessed).

In order to maximize your success in this subject you should focus on the following areas:

1. Completing all assessment tasks by the due date.
2. Reading ahead in the textbook to familiarize yourself with the new work.
3. Accessing the Unit 1 and 2 Chemistry page on Google classroom and teams regularly.
4. Accessing resources and information on Teams and Compass.
5. Completing all set textbook questions and using the solutions on Teams.
6. Seeking help from your teacher when there is a section of the work that you are not understanding.
7. Developing good study habits.
8. Completing past exam papers in preparation for the end of Unit exams.

If you have any queries about the course, please contact your teacher at school or by email.

On behalf of the Chemistry Study staff, we wish you all the best for your studies next year,

Regards,
Mr Cheney, Ms Bird & Mr Sanders

NAME OF TEACHER	EMAIL ADDRESS	LOCATION
Mr Cheney	cheneyj@vermontsc.vic.edu.au	Science office
Mr Sanders	sandersm@vermontsc.vic.edu.au	Science office
Ms Bird	birdk@vermontsc.vic.edu.au	Year 7 Student Managers office

OUTLINE OF STUDY

Unit 1 – The big ideas of chemistry:

Area of study 1: Explaining properties of matter (term 1)

Outcome: On completion of this unit the student should be able to relate the position of elements in the periodic table to their properties, investigate the structures and properties of metals and ionic compounds, and calculate mole quantities.

Area of study 2: Materials (term 2)

Outcome: On completion of this unit the student should be able to use models of structure and bonding to explain the properties and applications of materials, use systematic nomenclature to name organic compounds, and explain how polymers can be designed for a purpose.

Unit 2 – Environmental chemistry

Area of study 1: Water (term 3)

Outcome: On completion of this unit the student will focus on the properties of water and the reactions that take place in water including acid-base and redox reactions

Area of study 2: Analytical Chemistry (term 4)

Outcome: In this area of study, students focus on the use of analytical techniques, both in the laboratory and in the field, to measure the solubility and concentrations of solutes in water, and to analyse water samples for various solutes including chemical contaminants.

Coursework Requirements

For an assessment task to be marked it must be submitted by the **due date**. Only very serious circumstances, verified in writing by the student managers, will be considered for late submissions. If there is not a good reason for work being late then a NA (not assessed) will be given.

Satisfactory Requirements

To obtain an S for each unit students are to;

- Satisfactorily complete all assessment tasks
- Complete required coursework

And

- Pass either the exam or average over 40% on the tests

GOOGLE CLASSROOM- All students are required to regularly access google classroom. Fully worked solutions to the textbook are available as well as solutions to many of the assessment tasks and all resources.

Required Materials to be brought to each class

Writing materials.

Texts: Heinemann Chemistry 11, 5th Edition

Scientific Calculators. NOT CAS CALCULATORS.

Workbooks

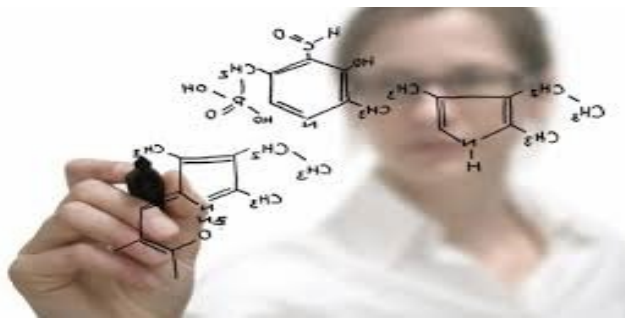
Display folder

Logbook

Holiday Homework:

1. Read Chapter 1 of the textbook and complete selected questions.
 - pg7 Q1-5
 - pg11 Q1-4
 - pg14 Q1-3
 - pg17 Q1-5
 - pg26 Q1-5
 - pg32 Q1 & 2
 - pg33 Chapter review Q1-22 (2, 3, 5, 6, 9, 16, 19, 20)
2. Write up report for Investigation 1 in logbook.
 - i. Task 1 Gas formation
 - ii. Task 2. Observing chemical reactions
 - iii. Task 3 Separation experiment (set up/design your method to be run in class)

Holiday Homework is to be handed in week two!



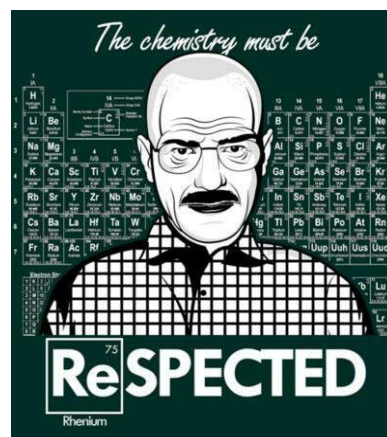
VCE Chemistry – Units 1 and 2 – 2021

Log Book Instructions

All practical exercises and demonstrations should be recorded in a LOG book

1. This page should be stuck on the front cover of your logbook.
2. The front page or inside cover of your logbook should show a table of contents,
3. Your ‘record’ for each prac or demonstration should include
 - the **name of the prac**
 - the **date** the prac was performed
 - the name of your **partner(s)**
 - the **Aim (or Purpose)** of the exercise – *write this out.*
 - a copy of the **prac instructions**; you do NOT have to slavishly copy these out! You will be supplied with these which you should cut out and glue in.
 - your **observations and recorded data**
 - all **calculations** and concise **answers to associated questions**
 - **A discussion**, which should reflect how well you achieved your aim and the likely accuracy of your outcomes. Likely accuracy refers to a discussion on ‘likely sources of error’ and their impact on your results / conclusion.

The point of writing a ‘discussion’ to each prac is to get you to reflect back on the chemistry of what you actually did and ‘achieved’ in the prac. Keep it **SUCCINCT**. *The point will be to learn from the pracs, NOT just do them!*
 - **A conclusion** – you need to answer your aim. In this you should refer to your results/data collected in the experiment.



Study Tips for Chemistry!!

1. Get organised! Have a folder to keep your notebook, logbook and to file any worksheets/homework in
2. Know the Curriculum!!! Keep a copy of the study design at the front of your folder and refer to it regularly.
3. Make and maintain a study space at home
4. Set high standards for yourself
5. Make a study group and revise together regularly
6. Revise regularly. Below are some suggestions for how you can do this throughout the year.

Weekly	In preparation for a SAC	In preparation for the exam
Make summary notes, mind maps, flashcards etc Review notes at home after each lesson. Identify areas of concern and see teacher for assistance Problems in Chemistry sheets Chapter questions	Review summary notes Chapter Review questions in textbook AOS review questions in textbook Practice worksheets Read the rubrics of Practical investigations thoroughly	Review study design Identify gaps in knowledge Complete practice questions (textbook/worksheets) Do past exams (moodle)