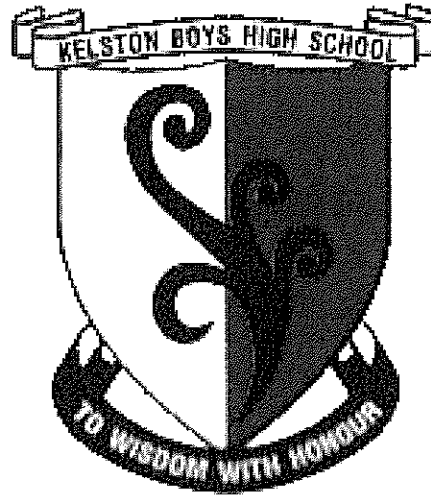


CHEMISTRY



Level 3 NCEA 2014

1. Introduction:

The world in which we live is one of continual progress resulting from scientific and technological discovery. The science of Chemistry has made a major contribution to this progress and in studying it in year 13, students are made increasingly aware of the benefits it has brought to our everyday lives. It would be a strange world without the plastics, detergents, dyes, antiseptics, antibiotics etc. with which we have become familiar.

Chemistry can lead not only to a Bachelor of Science tertiary qualification, but it also a pre-requisite for students intending to persure studies in medical, engineering and technical subjects.

- 2. Aims:**
- (i) To introduce students to the fundamental concepts and principles of Chemistry at this level.
 - (ii) To develop in students an appreciation of the nature of Chemistry and its relevance to the everyday life in people.
 - (iii) To develop students' investigation skills and attitudes in the determination of relationships, patterns and trends in Chemistry.
- 3. Objectives:** The material studied includes Organic compounds, Spectroscopy, Redox Reactions and processes, Thermochemistry, Atomic structure and bonding, Aqueous systems (Equilibrium)
- 4. Level 3 NCEA assessments:**

ACHIEVEMENT STANDARDS	TOPICS	INTERNAL OR EXTERNAL	NUMBER OF CREDITS	DATE ASSESSED
91388 3.2	Demonstrate understanding of spectroscopic data in chemistry	I	3	March
91390 3.4	Demonstrate understanding of thermochemical principles and the properties of particles and substances	E	5	November
91391 3.5	Demonstrate understanding of the properties of organic compounds	E	5	November
91392 3.6	Demonstrate understanding of equilibrium principles in aqueous systems	E	5	November
91393 3.7	Demonstrate understanding of oxidation-reduction processes	I	3	June

- 5. Pre-requisite:** The minimum entry requirement is:

14 Achievement standard credits from Level 2 Chemistry

6. Course fee: \$45-00

This fee will cover the cost of purchasing two workbooks – one for internals and the other for externals, both of which are highly recommended. They will reinforce the work covered in class and give you plenty of opportunity to do problem solving to strengthen your understanding of the work. An initial payment of \$22-00 will entitle you to the first workbook (internals) and a second installment of \$23-00 will give you the second one (externals).

YOUR RESPONSIBILITIES:**❖ ASSESSMENT DATES:**

It is your responsibility to make sure that you sit the Achievement standards on the dates set. Your Chemistry teacher is unable to grant extensions or alternative dates. If you miss an assessment because of illness, show your **medical certificate** to the year 13 Chemistry coordinator, who will try to arrange for you to complete the assessment.

❖ GEAR AND UNDERSTANDING:

It is really important that you bring your books and gear to every class. It is important that you listen carefully in class. You must do all set work. If you do not understand something ask your teacher. If you find a section difficult, work on it with a friend or at home. If you have any concerns about your work or your progress speak to your teacher immediately.

❖ CONTENT AND LEARNING:

At the beginning of each topic you will receive a list of learning outcomes. As you proceed through the topic you should tick which outcomes you have covered and ask about anything that you do not understand.

❖ HOME STUDY:

You will be expected to do regular homework and should plan your time accordingly. You should be doing a minimum of three hours of homework in Chemistry each week. To achieve really well you may need to do five to six hours each week.

❖ ATTENDANCE:

In order to achieve well you must attend all classes. Remember your teacher has planned the work for class that you will cover skills and facts that you need for your assessments. If you are away it is your responsibility to find out what the work was and to complete it. If you miss a formative test you must arrange with the teacher to do it another time.

A STEADY WORK ETHIC WILL BRING THE DESIRED RESULTS

Have a Good year and enjoy your NCEA LEVEL 3 Chemistry course.