

COURSE OUTLINE 2012

Subject and Level:

Chemistry NCEA Level 3 (Year 13)

Course Prerequisites:

Academic Requirements: At least 14 credits in level 2 including AS 90308 and 90309 or HOD approval.

Subject Fees: There is no subject fee but students are expected to purchase a workbook.

Aims:

Students will:

- Investigate and measure a range of chemical and physical properties of matter.
- Relate properties of matter to structure and bonding
- Use and develop and understanding of the fundamental concepts in Chemistry
- Relate their knowledge of Chemistry to the natural world and society

Course Content:

The course will cover the following broad areas:

- Thermochemistry and Equilibrium
- Reduction and oxidation reactions
- Structure of matter and chemical bonding
- Organic chemistry
- Chemical Mathematics
- Practical / Analytical Chemistry

These are an extension of the work covered in year 12 (level 2). There is a much greater breadth and depth of understanding required. There is also an extended practical investigation

Assessment:

There are 18 external credits (4 standards) and 6 internal credits (2 standards). Where possible re-sit opportunities are offered but this is dependant practical availability.

Where can this take you:

Chemistry is a pre-requisite for all the health related professions. It is also important for many industries such as drugs, cosmetics, foods, agriculture, fuels, manufacturing, etc. It is also a key component of other fields such as environmental science, water analysis, resource planning, etc.

Appeal procedures:

Follows the approved LPHS Assessment Appeals Procedure.

Contact for further inquiries:

Mr Thompson murray.thompson@lphs.school.nz

Assessment chart:

AS No	Standard Title	Credits	Internal / External	Format	Indicative Date
90696v2	Describe Oxidation-Reduction Processes.	3	External	Exam	Term 4
90698v2	Describe Aspects of Organic Chemistry.	5	External	Exam	Term 4
90700v2	Describe Properties of Aqueous Systems	5	External	Exam	Term 4
90780v1	Describe the Properties of Particles and Thermochemical Principles	5	External	Exam	Term 4
90695v2	Determine the Concentration of an Oxidant or Reductant by Titration	2	Internal	Practical	Mid Term 1
90694v2	Carry Out a Practical Investigation into the Variations in Concentration of a Substance	4	Internal	Extended Practical	Late Term 3
Or US 6341v4	Carry Out a Practical Investigation into the Variations in Amount of a Substance	or 6			