



CHEMISTRY 4

- Allows you to better understand and be able to make informed decisions about science issues in society and your local community
- Is a prerequisite for many university courses in health and science, which may include medicine, biotechnology, biochemistry, medical research, pharmacy and agricultural sciences
- Provides a pathway to further study or careers in agriculture, pharmacy, environmental science, engineering, health and medical sciences
- Contributes 15 credit points and meets the standard for everyday adult mathematical skills for your Tasmanian Certificate of Education.



CHEMISTRY 4





DEPARTMENT OF EDUCATION Hellyer College

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Current as at: 21/08/2018

AIM

Chemistry aims to develop learners with

- interest in chemistry and its usefulness in helping to explain chemical phenomena and solve problems
- understanding of the concepts, models and theories that may be used to describe, explain and make predictions about chemical systems, structures and properties
- understanding of the factors that affect and control chemical systems
- expertise in developing and conducting a range of scientific investigations,
- ability to critically evaluate and debate scientific arguments and claims in order to solve problems and generate informed, responsible and ethical conclusions
- ability to communicate chemical understanding and findings to a range of audiences.

TOPICS WE STUDY

- Structures and properties of organic materials
- Properties of gases
- Periodic Table
- Oxidation, reduction and electrochemical cells
- Corrosion
- Heat and energy in chemical reactions
- Reaction rates and chemical equilibrium
- Reacting quantities including calculations and analysis of data
- The role of scientists and the application of science in decision making

PRACTICAL WORK

Practical laboratory work is a very important part of Chemistry. Students are required to be able to work safely in practical situations as potentially dangerous materials may be used.



ASSESSMENT

Learning and assessment activities will Include

- Scientific reports
- Group work and presentations
- Assignments and research tasks
- Regular tests
- Mid-year exam
- Final exam

TO ENROL IN THIS SUBJECT YOU NEED:

- To be in Year 12
- A strong SA in Physical Sciences 3
- A strong background in mathematics, eg. Level 3 mathematics is highly recommended

