

Year 11 - 2022
Chemistry
Lawrence



Task Number: 2 **Notification Date: 01/08/2022** (reissue with allocated periods)
Weight: 35% **Due Date: Pds 3-4 Wed 17/08/2022 Week 5 Term 3**

OUTCOMES ASSESSED

CH11/12-3 conducts investigations to collect valid and reliable primary and secondary data and information
CH11/12-4 selects and processes appropriate qualitative and quantitative data and information using a range of appropriate media
CH11/12-5 analyses and evaluates primary and secondary data and information
CH11/12-6 solves scientific problems using primary and secondary data, critical thinking skills and scientific processes
CH11/12-7 communicates scientific understanding using suitable language and terminology for a specific audience or purpose
CH11-11 analyses the energy considerations in the driving force for chemical reactions

TASK DESCRIPTION

PRACTICAL TEST:

Key Content:

- Chemical Reactions and Stoichiometry: conduct practical investigations to observe and measure the quantitative relationships of chemical reactions, including but not limited to:
 - masses of solids and/or liquids in chemical reactions
- Chemical Reactions and Stoichiometry: relate stoichiometry to the law of conservation of mass in chemical reactions by investigating:
 - balancing chemical equations (ACSCH039)
- Mole Concept: explore the concept of the mole and relate this to Avogadro's constant to describe, calculate and manipulate masses, chemical amounts and numbers of particles in: (ACSCH007, ACSCH039) – moles of elements and compounds $n = m / MM$
- Conduct practical investigations to measure temperature changes in examples of endothermic and exothermic reactions, including:
 - Combustion
 - Dissociation of ionic substances in aqueous solution (ACSCH018, ACSCH037)

This practical test will consist of 4 prescribed experimental methods.

Students will rotate around the room, to:

- Apply scientific skills to follow prescribed procedures.
- Collect and collate experimental data in tabulated and graphed formats
- Adhere to WHS PPE requirements
- Perform appropriate calculations around concentration, moles and balanced equations

TASK INSTRUCTIONS

You will be given 4 prescribed methods to complete during the allocated lesson.

Each station will have 20 minutes of allocated time to complete the experiment and associated questions.

You will have the rest of the week to finalise your working and submit the finished paper.

MARKING GUIDELINES

- Marks will be allocated as indicated on the Practical Test paper.
- Stations are all evenly weighted (15 marks each)

Task Mark	Task Rank	Accumulative Rank

Teacher's signature: _____

HT Admin signature: _____

Deputy Principal's signature: _____