



MOUNT ANNAN HIGH SCHOOL

ASSESSMENT TASK NOTIFICATION

FACULTY	Science	COURSE	Chemistry	YEAR	12
TASK NUMBER	1	TASK NAME	Data Analysis		
TASK WEIGHT	20%	MARKS AWARDED	40		
DATE OF NOTIFICATION	Friday 24 th November 2023 (Term 4, Week 7)				
DUE DATE	Friday 9 th December 2023 (Term 4, Week 9)				

TASK DESCRIPTION / INSTRUCTIONS

Components of Task: Students are to complete data analysis of secondary source data in relation to chemical equilibrium.

1. The Haber process:

Students will be provided with secondary sourced data related to the Haber process. Students will then answer questions and perform calculations based on this information.

2. Colourimetry:

Students will be provided with secondary data on the colourimetry of iron (III) thiocyanate. Students will analyse the data provided and perform calculations after processing the data.

TASK SUBMISSION INSTRUCTIONS

Students will be demonstrating their understanding of the outcomes from **Module 5 – Equilibrium and Acid Reactions**. The task will be conducted in the classroom during the normal scheduled Chemistry lesson on **Friday 9th December 2023** (Term 4, Week 9). Students will have **50 minutes to complete the task**. Students will submit data analysis in class upon completion.

OUTCOMES

CH12-3	Conducts investigations to collect valid and reliable primary and secondary data and information.
CH12-4	Selects and processes appropriate qualitative and quantitative data and information using a range of appropriate media.
CH12-5	Analyses and evaluates primary and secondary data and information.
CH11-6	Solves scientific problems using primary and secondary data, critical thinking skills and scientific processes.
CH12-7	Communicates scientific understanding using suitable language and terminology for a specific audience or purpose.
CH12-12	Explains the characteristics of equilibrium systems, and the factors that affect these systems.



MOUNT ANNAN HIGH SCHOOL ASSESSMENT TASK NOTIFICATION

FAILURE TO COMPLETE OR SUBMIT AN ASSESSMENT TASK

If you do not attend school on the Due Date of an Assessment Task to submit or complete the task in person you will be given a zero mark unless you comply with the following Assessment Guidelines:

- For the Assessment Task completed at home – you must submit the assessment task before school on the next day you attend.
- For Assessment Tasks completed at school – you must report to the relevant Head Teacher before school the next day you attend and discuss when you will complete a task missed or a substitute task.
- Complete a 'Misadventure Form' and provide relevant information and evidence to appeal the **zero mark** awarded. Other circumstances are outlined in the MAHS Assessment Booklet for the particular year. Evidence may include an in person medical certificate for illness or a letter outlining extenuating circumstances or other deemed reasonable reasons. An outcome of your 'Misadventure Form' will be provided by the Deputy Principal.

Students found guilty of **malpractice** which includes plagiarism will be awarded a **zero mark**. If a piece of work is incomplete at the time of submission, it should be submitted as is, and you will be given a mark on what has been completed.

As per our school Assessment Procedures outlined in the MAHS Assessment Booklet for the particular year, you must see your teacher and Head Teacher on the **first day you return** back to school. Please access our school website to access our assessment procedures for each year group and a 'misadventure form' - <https://mountannan-h.schools.nsw.gov.au/community/assessment-schedules.html>

MARKING CRITERIA

Performance Descriptors	Marks/Grade
A student can: <ul style="list-style-type: none"> ● Demonstrates an extensive knowledge in understanding the characteristics of equilibrium systems, and the factors that affect these systems. ● Conducts investigations to collect valid and reliable secondary data and information. ● Accurately processes appropriate qualitative and quantitative data and information using a range of appropriate media. ● Extensively analyses and evaluates secondary data and information. ● Extensively Communicates scientific understanding using suitable language and terminology 	A 33-40
A student can: <ul style="list-style-type: none"> ● Demonstrates a thorough knowledge in understanding the characteristics of equilibrium systems, and the factors that affect these systems. ● Conducts investigations to collect valid and reliable secondary data and information. ● Accurately processes appropriate qualitative and quantitative data OR information using a range of appropriate media. ● Thoroughly analyses and evaluates secondary data and information. ● Thoroughly communicates scientific understanding using suitable language and terminology. 	B 25-32
A student can:	C



MOUNT ANNAN HIGH SCHOOL
ASSESSMENT TASK NOTIFICATION

<ul style="list-style-type: none"> ● Demonstrates a sound knowledge in understanding the characteristics of equilibrium systems, and the factors that affect these systems. ● Conducts investigations to demonstrate the ability to collect valid and reliable secondary data and information. ● Accurately processes some qualitative and quantitative data OR information using a range of appropriate media. ● Demonstrates the ability to analyse and evaluate secondary data and information. ● Communicates scientific understanding using suitable language and terminology. 	17-24
<p>A student can:</p> <ul style="list-style-type: none"> ● Demonstrates a limited knowledge in understanding the characteristics of equilibrium systems, and the factors that affect these systems. ● Conducts investigations to collect secondary data and information. ● Demonstrates a limited ability to process appropriate qualitative and quantitative data and information. ● Limited analysis or evaluation of secondary data and information. ● Demonstrates a limited ability to communicate scientific understanding using suitable language and terminology 	D 9-16
<p>A student can:</p> <ul style="list-style-type: none"> ● Demonstrates very limited knowledge in understanding the characteristics of equilibrium systems, and the factors that affect these systems. ● Conducts investigations to collect limited secondary data and information. ● Demonstrates limited ability to process appropriate qualitative OR quantitative data or information using appropriate media. ● Limited analysis OR evaluation of secondary data or information. ● Limited ability to communicate scientific understanding using suitable language and terminology. 	E 1-8
Non Attempt – Non Submission – Non Serious Attempt	0