

MANILLA CENTRAL SCHOOL - ASSESSMENT TASK NOTIFICATION

Year 11 - 2024

Chemistry Lawrence



Task Number: 1 Notification Date: Monday 05/02/2024

Weight: 35% Due Date: By 3.20pm to Mrs Lawrence, Friday 17/05/2024 Week 3 Term 2

DEPTH STUDY

OUTCOMES ASSESSED

CH11-1 develops and evaluates questions and hypotheses for scientific investigation

CH11-3 conducts investigations to collect valid and reliable primary and secondary data and information

CH11-4 selects and processes appropriate qualitative and quantitative data and information using a range of appropriate media

CH11-5 analyses and evaluates primary and secondary data and information

CH11-7 communicates scientific understanding using suitable language and terminology for a specific audience or purpose

CH11-8 explores the properties and trends in the physical, structural and chemical aspects of matter

TASK DESCRIPTION

DEPTH STUDY OF CHOICE (6 Hours)

Create a Research Poster on a topic of your choice relating to the module we have just studied.

You can choose one from the list below or one of your own:

- Medical uses of radioisotopes
- Hadron Collider synthesising new elements
- Radioactive dating in geology
- Environmental views on nuclear power
- Case Study: Fukushima
- Living in the shadow of Lucas Heights reactor
- Historical development of the periodic table and advances in technology leading to discovery of elements
- Converting peanut butter to diamond

TASK INSTRUCTIONS

You will be given 6 hours of class time to conduct primary and/or secondary source research.

Findings must be original in wording, and presented according to the formatting conventions of a scientific research poster.

Tasks are to be printed and submitted in hardcopy to Mrs Lawrence by the due date

Teacher's signature: _____ Mrs A Lawrence

HT Admin signature: _____ Miss M Eagles

Deputy Principal's signature: _____ Mrs R Ferguson

MARKING RUBRIC

Section	Criteria	Possible Marks	Your Mark
Introduction	Links to content within Module 1 or 2 Justifies the relevance and importance of researching as an extension of the syllabus content	2	
Research Questions	Develops multiple (4) key questions to focus research directions on Questions address multiple aspects of the concept being explored Questions draw on primary and secondary data sources (2)	4	
Methodology	Outlines the research and analysis process used to develop research findings Includes primary and secondary methods (2) Written in impersonal language Procedural text type, including numbered steps and verbs	5	
Secondary Source Analysis	Answers questions using multiple, reliable secondary sources of information Outlines the common trends and findings across the secondary sources to answer questions posed (4)	5	
Primary Research	Includes an image of the primary source investigation Includes a diagram of the apparatus used Identifies experimental variables (4)	6	
Relevant Models/Statistics	Provides statistics to support secondary source analysis (2) Provides tabulated data to support primary source results Provides graphed data to support primary source results Summarises the trends within the graph	5	
Conclusions	Draws common trends across primary and secondary data sources Concisely summarises answers to research questions posed (4) Suggests (1) and justifies (1) an area for further research	7	
Scientific Communication	Adhered to spatial limitations A3 formatting Information presented in appropriate subheadings Appropriate level of language utilised Original wording (no plagiarism) Use of scientific poster template Customisation of template (2)	7	
Reference List and Citations	Harvard format used Several resources utilised Information correctly cited throughout poster	4	
Additional Feedback:	Teacher signature _____ Date _____	45	
Task Mark	Task Rank	Cumulative Rank	