

MANILLA CENTRAL SCHOOL - ASSESSMENT TASK NOTIFICATION 2023

Stage 4 Science

Task Number: 1

Weight: 20%

Notification Date: Monday 13/02/2023

Due Date: By 3.20pm, Friday 10/03/2023 Week 7



Practical Portfolio

OUTCOMES ASSESSED

SC4-4WS	identifies questions and problems that can be tested or researched and makes predictions based on scientific knowledge
SC4-5WS	collaboratively and individually produces a plan to investigate questions and problems
SC4-6WS	follows a sequence of instructions to safely undertake a range of investigation types, collaboratively and individually
SC4-7WS	processes and analyses data from a first-hand investigation and secondary sources to identify trends, patterns, relationships, and draw conclusions
SC4-8WS	selects and uses appropriate strategies, understanding and skills to produce creative and plausible solutions to identified problems
SC4-9WS	presents science ideas, findings and information to a given audience using appropriate scientific language, text types and representations

TASK DESCRIPTION

Students will:

- complete 3 practical experiments in allocated class time
 - Rainbow Test-tube: Problem solving salt solution density to produce a layered mixture
 - Bunsen Burner Flame Heat: mapping the hottest part of a Bunsen burner flame
 - Soil Acidification: pH testing soil samples
- complete discussion of practical results during class time
- finalise their report at home
- submit their hardcopy portfolio for marking (attached)

TASK INSTRUCTIONS

- Students are to use their knowledge of Working Scientifically outcomes to plan and perform a range of first-hand investigations.
- Students compile their experiments in the provided hardcopy portfolio.
- All sections of the report scaffold should be filled out with the necessary information.
- Incomplete experiment write-ups can be finalised at home, prior to the due date (Friday, 10/03/2023)
- Any secondary source (background research) needs to be recognised by providing the author, date and URL or Title of publication in a References List.

Teacher's signature: _____

Mrs R Cowell

Head Teacher's signature: _____

Miss A Nott

Deputy Principal's Signature: _____

Mrs A Lawrence

Marking Guidelines

GENERAL:

- Marking Criteria has been supplied in the front cover of the hardcopy portfolio.
- Practical reports will be marked against the following:

PRACTICAL REPORTS:

	Criteria	Criteria Met (Teacher to tick)		
		Rainbow Test-tube	Bunsen Burner Flame Heat	Soil Acidification
1	Aim			
1	Hypothesis			
1	Prediction			
2	Materials			
	Correct quantities			
	All listed			
7	Method:			
	Steps listed impersonally			
	Controlled Variables			
	Independent Variables			
	Dependent Variables			
	Risks and Precautions			
	Drawn a diagram of apparatus			
	Labelled the diagram			
3	Results			
	Written observations			
	Table contains headings (units)			
	Table contains relevant and concise data			
4	Graph			
	Titles and units on axis			
	Increments on axis			
	Correct data			
	Correct type of graph			
5	Discussion Activities			
	Question 1			
	Question 2			
	Question 3			
	Question 4			
	Question 5			
1	Conclusion summarises trends			
25	TOTAL FOR PRACTICAL SECTION			/75

WRITTEN RESPONSES:

Written Essay Response		Your Marks
1	Introduction	
6	3 paragraphed arguments supporting (2 marks each)	
6	3 paragraphed arguments against (2 marks each)	
1	Conclusion	
14	SUBTOTAL	/14
Timeline		Your Marks
1	Ruled line with even increments	
5 key events:		
5	Event date stated and matched to line	
5	Concise statement of each event	
11	SUBTOTAL	/11
150	PORTFOLIO TOTAL	/100

Task Mark**Task Rank****Accumulative Rank****Additional Teacher Feedback****Teacher Signature:** _____**Date:** _____