Chemistry Practical Learning Portfolio Scheme (2025/26)
Final Experiment List - Secondary 4

[Submission deadline: 3 July 2026 (Friday)]

School Information:

Name of School:	_____	Contact No. of Teacher-in-Charge:	_____
Name of Teacher-in-Charge:	_____	E-mail Address of Teacher-in-Charge:	_____

Scheme Period: 1 September 2025 – 30 June 2026

Instructions:

- This form should be completed by the teacher-in-charge and submitted together with the required documents.
- Please list the Secondary 4 Chemistry experiments conducted within the above period in chronological order, providing the date, number of student participated, experiment title, objective(s), and at least one higher-order thinking question for each experiment.
- For an experiment to be counted for this portfolio, it should:
  a) be conducted by students (individually or in groups) under teacher supervision, and related to Chemistry curriculum topics;
  b) involve clear objectives and experimental procedures distinct from other experiments conducted;
  c) not be conducted in the date same as any of those of submitted experiments within a class / subject group (i.e. no more than one experiment information submitted for a specific date for a class / subject group);
  d) include **at least two** of the following elements: data collection, observation recording, use of standard laboratory apparatus, data analysis (or calculation), and reasoning (or discussion) of results; and
  e) include **at least one** higher-order thinking question to promote scientific reasoning or inquiry skills.
- Other required documents for submission: (i) One sample copy of students' worksheet for each experiment, showing students' written answers and teachers/students' marking; and (ii) students' attendance list for each experiment.

No.	Date of Experiment	No. of student participated	Experiment Title	Objective	Higher-order thinking questions[1] (At least ONE for each experiment)
e.g.	3/11/2025	24	Determining the empirical formula of magnesium oxide	To determine the empirical formula of magnesium oxide by combustion of magnesium	• Could we use the same experimental procedures to determine the empirical formula of an oxide of copper? Explain your answer.
e.g.	10/11/2025	23	Thermal decomposition of baking soda	To study the thermal decomposition of baking soda and solve the related stoichiometric problems	• A student measured a residue mass that was higher than the theoretical expected value after heating baking soda. Propose two potential reasons for this discrepancy. • Suggest an improvement to the weighing procedure to enhance accuracy.
1					
2					
3					

[1] Please refer to the information sheet about higher-order thinking questions at https://www.edb.gov.hk/en/curriculum-development/kla/science-edu/portfolio-scheme.html.

No.	Date of Experiment	No. of student participated	Experiment Title	Objective	Higher-order thinking questions[1] (At least ONE for each experiment)
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					

No.	Date of Experiment	No. of student participated	Experiment Title	Objective	Higher-order thinking questions[1] (At least ONE for each experiment)
14					
15					
16					
17					
18					

Declaration

(i) I confirm that the experiments listed above have been conducted by the S4 students of my school during the 2025/26 school year.

(ii) I understand that records for the Chemistry Practical Learning Portfolio Scheme (2025/26) will be issued to students of my school only if all the information provided in this proforma is accurate.

Signature of Principal _____

Name of Principal _____

Date _____

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