

Rules, procedures and information

The assessment is entirely individual. The teacher will act as an observer and ensure the assessment is conducted properly; they will not provide any additional help or information. Prepare accordingly.

- You have 45 minutes to complete both parts (precision and accuracy), including calculations.
- No extra time will be given, even if you are late.
- Penalty of 1 mark per minute for exceeding the 45-minute deadline.
- Wearing a lab coat and safety glasses AT ALL TIME is mandatory.
- Know your locker combination; do not open your drawer or take glassware before the signal.
- Two assessment procedures are on a single double-sided sheet.
- The teacher will assign your first assessment (Precision or Accuracy).
- Write your name on both sides of the sheet, this lab data sheet must be filled in ink.

Precision Assessment

- You will be using the same balance throughout the experiment. Therefore, bring your glassware next to the scale to perform this assessment.
- Your **FINAL WEIGHING MUST BE RECORDED IN THE PRESENCE OF THE TEACHER**, At this point, raise your hand and wait for the teacher who will sign your data sheet before you leave your station. No marks will be awarded without the teacher's signature.

Accuracy assessment

- You will perform a standard acid-base titration. The burette is initially filled with water.
- After completing the experiment, empty the burette into the sink and refill it with distilled water up to the "zero" mark.

In both assignments, your grade will be based on the final values provided with the correct number of significant figures. Sample calculations may be useful to check for calculation errors but are not required.

Laboratory tips:

- All chemicals must be discarded in the sink.
- When filling your pipette, ensure you add enough liquid (sample) to the beaker. Use a small 150 mL beaker. If liquid enters the suction bulb, it must be replaced (-0.5 mark).
- Be sure to rinse your pipette and burette with the working solution at least twice before using them to ensure accuracy and precision.
- Once the balance has been set (zeroed) at the beginning of the experiment, it must never be reset to zero again during the measurements.