LAB NOTEBOOK TEMPLATE

(Use this during experiments to record observations, data, and procedures in real time.)

COVER PAGE

- **Experiment Title:** _____
- **Course / Lab Section:** _____
- **Instructor:** _____
- **Your Name:** _____
- **Semester / Term:** _____
- **Lab Partner(s):** _____

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Experiment # Title Date Page #

GENERAL LAB NOTEBOOK RULES (Printed at Top of First Page)

- Record entries **in ink**, never erase — draw a single line through corrections.
- Date every page and every entry.
- Do not leave blank spaces.
- Attach printed data or graphs with tape and label them.
- Sign each page.
- The notebook is a **legal scientific record** — keep it clear, complete, and chronological.

EXPERIMENT ENTRY TEMPLATE

(Repeat this full section for each lab session.)

Experiment Title: _____

Experiment Number / Code: _____

Date: _____

Start Time: _____ End Time: _____

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1. Objective / Purpose

(What is the goal of this experiment? What question are you investigating?)

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2. Background / Theory (Brief)

(Important equations, concepts, or references directly needed during the experiment.)

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3. Materials and Equipment

(List everything used, including model numbers, chemical concentrations, and quantities.)

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- ---
- ---

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4. Safety Notes

(Hazards, PPE required, handling/storage notes.)

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- ---
- ---

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5. Experimental Setup

(Sketch or describe the setup clearly. Include instrument settings, calibration, and arrangement.)

Diagram / Setup Sketch

(Attach drawing or sketch here; label all components.)

Instrument Calibration

- Equipment calibrated? (Y/N)
- Calibration procedure: _____
- Calibration values / offsets: _____

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6. Procedure (Real-Time Notes)

(Record EXACTLY what you do — not what the manual says. Update during the experiment.)

Step 1: _____
Step 2: _____
Step 3: _____
Step 4: _____

Additional Steps:

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7. Raw Data

(All observations recorded chronologically. Include units and uncertainties.)

Table Format (Use as many as needed)

Table Title: _____

Trial # Measurement Units Uncertainty Notes

Additional Data / Notes

- _____
- _____
- _____

Direct Observations

(Colors, smells, qualitative changes, unexpected events, errors during procedure.)

- _____
- _____

_____

8. Calculations (Work Shown)

(Perform calculations during or after the experiment; include formulas and units.)

Example format:

- **Formula:** _____
- **Values Inserted:** _____
- **Final Answer:** _____

Space for calculations:

_____

_____

_____

_____

9. Preliminary Results (Not Final Report Results)

(Quick summaries based on notebook data, not fully analyzed.)

- _____
- _____

_____

10. Problems, Errors, and Notes for Future Trials

(Record any issues: equipment malfunction, spills, incorrect volumes, environmental changes.)

- _____
- _____
- _____

_____

11. Cleanup and Shutdown

(Document what you turned off, disposed of, cleaned, or stored.)

- _____

- _____

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12. Signatures

- **Student Signature: _____**
- **Instructor / TA Verification (if required): _____**

END OF EXPERIMENT ENTRY
