

# Laboratory Scientific Equipment Maintenance Checklist

Ensure optimal performance and safety of your **laboratory scientific equipment** with a comprehensive maintenance checklist. Regular inspections and timely servicing prevent costly breakdowns and ensure accurate experimental results. Implementing this checklist fosters a reliable and efficient laboratory environment.

## General Maintenance Tasks

- Review and follow manufacturer instructions for each equipment.
- Perform visual inspections for wear, corrosion, and damage.
- Verify calibration and recalibrate as required.
- Clean equipment surfaces and accessible internal components.
- Lubricate moving parts (if applicable).
- Check and replace consumables (filters, bulbs, fuses, etc.).
- Test safety mechanisms and interlocks.
- Inspect electrical cords, plugs, and connections.
- Record maintenance activities in the equipment logbook.
- Report damage or malfunctions to designated personnel.

## Sample Maintenance Log Table

Equipment Name	Serial Number	Check Performed	Date	Performed By	Observations/Actions
Analytical Balance	AB123456	Calibration	2024-06-14	J. Smith	Calibrated, no issues found
pH Meter	PH7891011	Electrode Replacement	2024-06-14	M. Rodriguez	Electrode replaced, calibrated
Centrifuge	CF115233	Lubrication & Inspection	2024-06-13	T. Lee	Lubricated, found minor imbalance

## Frequency Recommendations

- Daily:** Visual inspections, basic cleaning, log issues.
- Weekly:** Functional checks, more thorough cleaning.
- Monthly:** Calibration, deep cleaning, part replacement as necessary.
- Quarterly/Annually:** Full servicing by qualified technicians.

Regular adherence to this checklist extends equipment lifespan, improves data reliability, and upholds laboratory safety standards.