Class 12 Practical File and Project Checklist

CBSE 2026-27 · Practicals for regular-session schools begin 1 January 2027 · Aim to finish everything by mid-December

1. Marks split (30 marks each)

Subject	Components and marks
Physics	Two experiments, one per section (7 + 7) · one activity (3) · practical record (5) · investigatory project (3) · viva (5)
Chemistry	Volumetric analysis (8) · salt analysis (8) · content-based experiment (6) · project work (4) · class record and viva (4)
Biology	Major experiment (5) · minor experiment (4) · slide preparation (5) · spotting (7) · practical record + viva (4) · investigatory project, project record + viva (5)
Computer Science	Python program (8) · SQL queries, 4 on one or two tables (4) · report file (7) · project (8) · viva (3)

Marks: Class 12, 2026-27 — Chemistry, Biology, Computer Science from Delhi DoE syllabi based on the CBSE curriculum; Physics from the CBSE syllabus as reproduced by Oswal Publishers. Confirm with your school.

2. Minimum entries in your file

Subject	Required	My count	Done
Physics	At least 8 experiments (4 per section) + 6 activities (3 per section) + project report		☐
Chemistry	As listed by your teacher (titrations, salt analysis, content-based experiments) + project		☐
Biology	As listed by your teacher (experiments, slides, spotting records) + project		☐
Computer Science	At least 15 Python programs + 5 sets of SQL queries + 4 Python–SQL connectivity programs		☐

3. Every experiment entry has…

☐ Number, title and date in the index, with a column for the teacher’s signature
☐ Aim and apparatus / materials
☐ Theory or principle with the formula used
☐ Labelled diagram (pencil, blank page) or circuit / ray diagram
☐ Observation table with units in the column headings
☐ Calculations shown step by step
☐ Result with correct units and sensible significant figures
☐ Precautions and sources of error
☐ Graph (where needed) with title, labelled axes, units and scale
☐ Teacher’s signature

4. Investigatory project report

Section	What to include	Done
Certificate & acknowledgement	School format, signed	☐
Aim & introduction	One clear question you set out to answer	☐
Materials & procedure	Step by step, with photos of your own set-up	☐
Observations	Your real readings in tables; graphs where useful	☐
Result & conclusion	What you found and why	☐
Bibliography	NCERT textbook and every other source; note any AI help	☐

5. Countdown

When	Task	Done
By 30 Nov	List every pending experiment and activity; book lab time	☐
By 10 Dec	Complete all file entries and graphs	☐
By 15 Dec	Project report finished and checked by teacher	☐
Before winter break	All entries signed	☐
Last 3 days	Revise theory + viva bank; pack file, project, calculator, pencils	☐