

Cornell Guided Notes

Principles of Biomedical Technology (Principles of Biomedical Science) | 2026-08-26

Name

Period

Date

Lesson

Lesson focus

PPE and notebook practical

Key words and questions

Prepared details and student notes

Essential question
What is today's target?

Set up a lab notebook to SOP standard and demonstrate correct PPE selection in a hands-on station rotation. Big idea: A written SOP and a properly kept notebook are the two habits that protect investigators from their own errors.

My notes, examples, and questions

Key words
What vocabulary unlocks the lesson?

- safety
- PPE
- SDS
- variable
- control
- evidence
- chain of custody
- descriptive statistics

My notes, examples, and questions

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Cornell Notes - Continued

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Must-know ideas
What should I understand by the end?

- An SOP includes purpose, materials, step-by-step procedure, PPE requirements, and disposal instructions.
- A lab notebook must record raw data with units, date, and any deviations from the procedure.
- Selecting the correct PPE requires matching the glove material and eye protection to the specific hazard level.

My notes, examples, and questions

Process notes
What happens during class?

- 0:00: Brief review of yesterday's PPE categories; introduce the three station hazards
- 0:08: Demonstrate how to set up an SOP-format notebook page; students copy the template
- 0:18: Station rotation begins: three stations, ~15 min each, partner verifies PPE before each task
- 0:55: Return to seats; complete SDS lookup for one chemical used at a station
- 1:05: Record three measurements in data table, calculate mean, note one error source
- 1:15: Wrap-up: share one limitation; preview Thursday graphing work

My notes, examples, and questions

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Cornell Notes - Continued

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Steps and evidence What do I do and turn in?

- Read the station SOP and copy its purpose, materials, and steps into your notebook.
- Don the correct PPE for each of three hazard stations and have a partner verify.
- Record an SDS lookup for one chemical: hazard, PPE, first aid.
- Take three measurements of a sample and log them with units in a data table.
- Note one source of error and one limitation of your measurement method.

Evidence: Notebook check - Lab notebook SOP page for one station: purpose, materials, steps, PPE chosen, SDS lookup (hazard/first-aid), and a 3-trial data table with units and one error-source note.

My notes, examples, and questions

Checks for understanding How do I know I got it?

- I can keep a lab notebook that follows an SOP.
- I can choose and justify PPE for a specific hazard.

My notes, examples, and questions

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Cornell Notes - Continued

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Lab or safety notes
What must I handle carefully?

Safety:

- Students must don goggles and gloves before touching any materials at chemical stations; no exceptions.
- Gloves are single-use: remove with the glove-to-glove, skin-to-skin technique and discard in the designated waste bin, not the regular trash.
- Never pipette by mouth; use bulb pipettes or automatic pipettors only.
- Wash hands with soap and water for at least 20 seconds after removing gloves, even if gloves appear intact.
- Spills: contain with absorbent material, notify teacher immediately, consult the SDS for the specific disposal and first-aid steps.

Supplies:

- Lab notebooks or bound composition books (one per student)
- Nitrile gloves (multiple sizes)
- Chemical splash goggles (one per student)
- Lab aprons or disposable Tyvek gowns
- Rulers (metric)
- Mass balances
- Water samples or safe colored-water stand-ins for chemical hazard station

My notes, examples, and questions

Summary

Today's lesson focused on PPE and notebook practical. The main target was: Set up a lab notebook to SOP standard and demonstrate correct PPE selection in a hands-on station rotation. The evidence of learning is Notebook check: Lab notebook SOP page for one station: purpose, materials, steps, PPE chosen, SDS lookup (hazard/first-aid), and a 3-trial data table with units and one error-source note.. In my own words, the most important idea from today is:

My summary

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My final question or connection