

Cornell Guided Notes

Principles of Biomedical Technology (Principles of Biomedical Science) | 2026-08-25

Name

Period

Date

Lesson

Lesson focus

Lab safety and SDS

Key words and questions

Prepared details and student notes

Essential question
What is today's target?

Identify core lab safety rules, PPE, and how to read a Safety Data Sheet before completing the PLTW intro task. Big idea: Proper PPE and SDS literacy are non-negotiable prerequisites before anyone enters a biomedical lab.

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

Key words and questions

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

- The four PPE categories are eye/face protection, gloves, protective clothing, and respiratory protection.
- An SDS has 16 standard sections; hazard identification is Section 2, first aid is Section 4.
- Controlled variables are kept constant so that only the independent variable causes changes in results.

My notes, examples, and questions

Process notes
What happens during class?

- 0:00: Overview: why handling, preparation, storage, and disposal is one of the largest parts of the WebXam; real consequences of PPE failure
- 0:10: Teacher-led notes: four PPE categories, when each is required, and how to select glove type
- 0:25: SDS walkthrough: navigate all 16 sections; students highlight Sections 2, 4, 6, 8, and 13 (disposal)
- 0:45: Chemical pictogram matching activity: match three chemicals to GHS hazard pictograms
- 0:55: myPLTW: open lab-safety contract task, read, and complete online signature
- 1:10: Exit: write one independent variable and one control for a future experiment; collect contracts

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?

- Take teacher notes on the four PPE categories and when each is required.
- Walk through the 16 sections of an SDS and find the hazard and first-aid sections.
- Match three common lab chemicals to their hazard pictograms.
- Open the PLTW launch lesson and complete the lab-safety contract task online.
- Write one independent variable and one control you will track in any experiment.

Evidence: Vocabulary task - SDS lookup card: for one assigned chemical, record the name, hazard class (Section 2), required PPE (Section 8), first-aid steps (Section 4), and disposal method (Section 13).

My notes, examples, and questions

Checks for understanding How do I know I got it?

- I can name the PPE required for a given hazard.
- I can locate hazard and first-aid info on an SDS.

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?

Supplies:

- Bound lab notebook
- Safety goggles
- Nitrile gloves
- Lab coat or apron
- Eyewash station
- Printed or digital Safety Data Sheet
- Chemical waste container

My notes, examples, and questions

Summary

Today's lesson focused on Lab safety and SDS. The main target was: Identify core lab safety rules, PPE, and how to read a Safety Data Sheet before completing the PLTW intro task. The evidence of learning is Vocabulary task: SDS lookup card: for one assigned chemical, record the name, hazard class (Section 2), required PPE (Section 8), first-aid steps (Section 4), and disposal method (Section 13).. In my own words, the most important idea from today is:

My summary

My final question or connection