

# Cornell Guided Notes

Biotechnology for Health (Biomedical Innovations) | 2027-01-20

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?**

Demonstrate safe lab conduct and read a Safety Data Sheet to identify hazards, PPE, and first-aid measures. Big idea: Reading and applying a Safety Data Sheet is a core lab-SOP skill that applies to every biomedical lab you will ever enter.

**My notes, examples, and questions**

**Key words**  
**What vocabulary unlocks the lesson?**

- innovation
- prototype
- constraint
- criterion
- evidence
- PPE

**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?

- How to locate hazard information, required PPE, and first-aid procedures in an SDS.
- Which SDS sections correspond to hazards (Section 2), PPE (Section 8), and first aid (Section 4).
- Where emergency equipment is located in this lab and how to use it.

#### My notes, examples, and questions

#### Process notes

What happens during class?

- 0-10: Lab-safety briefing: tour eyewash, shower, extinguisher, and SDS binder locations
- 10-30: SDS deep-read: open one SDS, find Sections 2, 8, and 4, and annotate each
- 30-45: PPE matching activity: pair three chemicals to their required PPE using SDS evidence
- 45-65: Safety practical checkpoint: demonstrate PPE selection to instructor
- 65-75: Complete and submit SDS reading worksheet
- 75-80: Exit-ticket debrief: name one SDS section and what it tells you

#### My notes, examples, and questions

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#### Steps and evidence What do I do and turn in?

- Watch the lab-safety briefing and locate eyewash, shower, extinguisher, and SDS binder.
- Open one SDS and find Section 2 (hazards), Section 8 (PPE), and Section 4 (first aid).
- Match three common lab chemicals to their required PPE.
- Complete the safety/SDS practical checkpoint with the instructor.
- Submit your SDS reading worksheet with hazards and PPE identified.

Evidence: Pre-lab - SDS reading worksheet identifying hazard class, required PPE, and first-aid measures for one assigned chemical.

#### My notes, examples, and questions

#### Checks for understanding How do I know I got it?

- You can locate hazard, PPE, and first-aid information on any SDS.
- You can select correct PPE for a given chemical.

#### My notes, examples, and questions

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**Lab or safety notes**  
**What must I handle carefully?**

Supplies:

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

**My notes, examples, and questions**

## Summary

Today's lesson focused on Lab safety and SDS. The main target was: Demonstrate safe lab conduct and read a Safety Data Sheet to identify hazards, PPE, and first-aid measures. The evidence of learning is Pre-lab: SDS reading worksheet identifying hazard class, required PPE, and first-aid measures for one assigned chemical.. In my own words, the most important idea from today is:

**My summary**

## My final question or connection