

Cornell Guided Notes

Genetics of Disease (Medical Interventions) | 2027-01-19

Name

Period

Date

Lesson

Lesson focus

Lab safety and SDS practical

Key words and questions

Prepared details and student notes

Essential question
What is today's target?

Practice the safety rules and learn to read a Safety Data Sheet so you can work safely with lab materials all year. Big idea: How do safety protocols protect both the scientist and the people around them?

My notes, examples, and questions

Key words
What vocabulary unlocks the lesson?

- intervention
- diagnosis
- prognosis
- evidence
- safety
- PPE

My notes, examples, and questions

Cornell Guided Notes

Genetics of Disease (Medical Interventions) | 2027-01-19

Cornell Notes - Continued

Key words and questions

Prepared details and student notes

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

- A Safety Data Sheet has 16 sections; Section 2 lists hazards and Section 4 gives first-aid steps.
- Goggles and gloves must go on before you open any chemical and come off using the inside-out technique.
- Knowing emergency equipment locations before an accident happens is the first rule of lab safety.

My notes, examples, and questions

Process notes
What happens during class?

- 0-10 min: Room safety walk: locate eyewash, fire blanket, sharps container, spill kit, and two exits
- 10-25 min: PPE practice: don goggles and gloves, then practice glove removal without touching the outer surface
- 25-45 min: SDS deep-dive: read Section 2 (hazards) and Section 4 (first aid) for one assigned chemical; answer written questions
- 45-60 min: Emergency drill: walk the eyewash route at normal pace, then eyes-closed; sketch the room layout
- 60-72 min: Partner quiz: one partner describes a hazard scenario, the other states the correct SDS first-aid response
- 72-80 min: Safety contract sign-off and exit-ticket: two rules + one equipment location from memory

My notes, examples, and questions

Cornell Guided Notes

Genetics of Disease (Medical Interventions) | 2027-01-19

Cornell Notes - Continued

Key words and questions

Prepared details and student notes

Steps and evidence What do I do and turn in?

- Walk the room and locate the eyewash, fire blanket, sharps container, and chemical spill kit; sketch a quick map.
- Put on goggles and gloves correctly, then practice the safe way to remove gloves without touching the outside.
- Open a provided Safety Data Sheet and find Section 2 (hazards) and Section 4 (first aid) for one chemical.
- Write what to do if that chemical splashes in your eyes, using the SDS first-aid section as your source.
- Practice one emergency drill (eyewash walk-through) so you know the path without looking.
- Sign the safety contract only after you can explain two rules and where one piece of safety gear lives.

Evidence: Exit ticket - Name two safety rules and locate one piece of emergency equipment from memory; written on an index card or typed.

My notes, examples, and questions

Checks for understanding How do I know I got it?

- You will be able to locate and explain the use of key lab safety equipment.
- You will be able to find hazard and first-aid information on a Safety Data Sheet.
- You will be able to put on and remove gloves and goggles safely.

My notes, examples, and questions

Cornell Guided Notes

Genetics of Disease (Medical Interventions) | 2027-01-19

Cornell Notes - Continued

Key words and questions

Prepared details and student notes

Lab or safety notes
What must I handle carefully?

Safety:

- Model proper glove donning and the inside-out removal technique before students try.
- Confirm eyewash station is functional and the path is clear of obstacles before the walk-through.
- No open flames or chemicals during the safety practice day.
- Collect signed safety contracts before any future lab work is permitted.

Supplies:

- Disposable nitrile gloves (one pair per student)
- Safety goggles (one per student)
- Printed or projected Safety Data Sheet for one common lab chemical (e.g., ethanol or acetic acid)
- Lab safety map handout or blank paper for sketching the room
- Safety contract (printed or digital)

My notes, examples, and questions

Summary

Today's lesson focused on Lab safety and SDS practical. The main target was: Practice the safety rules and learn to read a Safety Data Sheet so you can work safely with lab materials all year. The evidence of learning is Exit ticket: Name two safety rules and locate one piece of emergency equipment from memory; written on an index card or typed.. In my own words, the most important idea from today is:

My summary

Cornell Guided Notes

Genetics of Disease (Medical Interventions) | 2027-01-19

Cornell Notes - Continued

My final question or connection