

Cornell Guided Notes

Biotechnology for Health (Biomedical Innovations) | 2027-02-24

Name

Period

Date

Lesson

Lesson focus

Data-ethics debate

Key words and questions

Prepared details and student notes

Essential question
What is today's target?

Debate the ethics of collecting and storing human physiological data. Big idea: Collecting data from human bodies carries ethical obligations -- consent, data minimization, and storage limits are not bureaucratic extras but protections for real people.

My notes, examples, and questions

Key words
What vocabulary unlocks the lesson?

- sample size
- mean
- standard deviation
- t-test
- validity
- reliability

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?

- What informed consent requires and why it applies to student physiology investigations.
- How to argue a position on an ethical limit for biometric data collection using CER.
- How the data-ethics debate connects to your own Problem 2 plan.

My notes, examples, and questions

Process notes
What happens during class?

- 0-10: Frame the debate: what does consent mean in a classroom physiology study?
- 10-25: Debate prep: write two questions and draft your CER position on an ethical limit for biometric data use
- 25-55: Structured debate: argue positions and record a counterargument
- 55-65: Connect to your data plan: how does today's argument constrain how you will collect data Wednesday?
- 65-77: Submit two questions, CER contribution, and reflection
- 77-80: Pre-lab preview: review Wednesday's sensor protocol and note any questions

My notes, examples, and questions

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Steps and evidence What do I do and turn in?

- Prepare two questions about consent and physiological data collection.
- Draft a CER position on an ethical limit for biometric data use.
- Debate with peers and record a counterargument.
- Connect the ethics to your own Problem 2 data plan.
- Submit two questions, one CER contribution, and a reflection.

Evidence: CER - CER contribution arguing an ethical limit for physiological data collection and storage, plus two questions and a reflection connecting the argument to the Wednesday lab plan.

My notes, examples, and questions

Checks for understanding How do I know I got it?

- You can argue an ethical position on physiological data.
- You can relate consent norms to your own study plan.

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:

- Heart-rate or pulse sensor
- Lab computer or tablet with spreadsheet software
- Stopwatch or timer
- Data collection sheet
- Calculator
- Cleaning wipes for shared sensors

My notes, examples, and questions

Summary

Today's lesson focused on Data-ethics debate. The main target was: Debate the ethics of collecting and storing human physiological data. The evidence of learning is CER: CER contribution arguing an ethical limit for physiological data collection and storage, plus two questions and a reflection connecting the argument to the Wednesday lab plan.. In my own words, the most important idea from today is:

My summary

My final question or connection