

Cornell Guided Notes

Biotechnology for Health (Biomedical Innovations) | 2027-02-22

Name

Period

Date

Lesson

Lesson focus

Physiology variables

Key words and questions

Prepared details and student notes

Essential question
What is today's target?

Launch Problem 2 by identifying variables for a human physiology research design. Big idea: A testable hypothesis and correctly identified variables are the non-negotiable foundation of any physiological investigation.

My notes, examples, and questions

Key words
What vocabulary unlocks the lesson?

- iteration
- feedback
- usability
- hypothesis
- variable
- control

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 definitions of independent, dependent, and controlled variables and how to apply them to a physiology investigation.
- What makes a hypothesis testable rather than merely a guess.
- Why choosing a measurable physiological variable -- such as heart rate -- is the first constraint that shapes the entire study design.

My notes, examples, and questions

Process notes
What happens during class?

- 0-10: Introduce Problem 2: physiology investigation overview and evidence expectations
- 10-25: Read the Problem 2 physiology overview and discuss physiological measures worth studying
- 25-40: Choose a measure and identify independent, dependent, and controlled variables
- 40-60: Write a testable hypothesis linking the independent variable to the dependent measure
- 60-75: Submit your variables and hypothesis
- 75-80: Pair-check: does your partner's hypothesis have all three variable types? Give one piece of feedback.

My notes, examples, and questions

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Steps and evidence What do I do and turn in?

- Read the Problem 2 physiology overview.
- Choose a physiological measure to investigate, such as heart rate.
- Identify the independent, dependent, and controlled variables.
- Write a testable hypothesis about your measure.
- Submit your variables and hypothesis.

Evidence: Exit ticket - Problem 2 launch: chosen physiological measure, identified independent/dependent/controlled variables, and a testable hypothesis.

My notes, examples, and questions

Checks for understanding How do I know I got it?

- You can name independent, dependent, and controlled variables.
- You can write a testable physiology hypothesis.

My notes, examples, and questions

Lab or safety notes What must I handle carefully?

No special lab safety notes today. Follow normal classroom and digital-work expectations.

My notes, examples, and questions

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Summary

Today's lesson focused on Physiology variables. The main target was: Launch Problem 2 by identifying variables for a human physiology research design. The evidence of learning is Exit ticket: Problem 2 launch: chosen physiological measure, identified independent/dependent/controlled variables, and a testable hypothesis.. In my own words, the most important idea from today is:

My summary

My final question or connection