

Cornell Guided Notes

Human Anatomy & Physiology (Human Body Systems) | 2026-10-29

Name

Period

Date

Lesson

Lesson focus

Variables and controls

Key words and questions

Prepared details and student notes

Essential question
What is today's target?

Students will define independent, dependent, and controlled variables using teacher notes and the PLTW online task. Big idea: Controlled experiments isolate one variable at a time so that results can be attributed to a single cause.

My notes, examples, and questions

Key words
What vocabulary unlocks the lesson?

- model organism
- C. elegans
- assay
- literature
- variable
- control
- sample size

My notes, examples, and questions

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Cornell Notes - Continued

Key words and questions

Prepared details and student notes

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

- The independent variable is deliberately changed; the dependent variable is measured; controlled variables are held constant.
- Sample size affects the reliability and generalizability of experimental results.
- Confounding variables introduce alternative explanations and weaken causal conclusions.

My notes, examples, and questions

Process notes
What happens during class?

- 0-10: Warm-up: identify what is wrong with a poorly designed experiment (projected example)
- 10-28: Guided notes: independent, dependent, controlled variables, sample size, confounding variables
- 28-45: PLTW online variables-identification activity
- 45-60: Label variables in a provided sample experiment description
- 60-72: Write one confounding variable scenario and share with a partner
- 72-80: Submit labeled experiment and PLTW activity confirmation

My notes, examples, and questions

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Key words and questions

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Steps and evidence What do I do and turn in?

- Take notes on variable types and experimental controls.
- Define sample size and explain why it matters.
- Complete the PLTW online variables-identification activity.
- Label variables in a sample experiment description.
- Write one example of a confounding variable.

Evidence: Notebook check - Labeled sample experiment with independent, dependent, and controlled variables identified, plus a written confounding-variable example.

My notes, examples, and questions

Checks for understanding How do I know I got it?

- All three variable types are correctly identified in the sample.
- PLTW online task is submitted complete.

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 Variables and controls. The main target was: Students will define independent, dependent, and controlled variables using teacher notes and the PLTW online task. The evidence of learning is Notebook check: Labeled sample experiment with independent, dependent, and controlled variables identified, plus a written confounding-variable example.. In my own words, the most important idea from today is:

My summary

My final question or connection