

Cornell Guided Notes

Human Anatomy & Physiology (Human Body Systems) | 2027-04-06

Name

Period

Date

Lesson

Lesson focus

Research design and poster plan

Key words and questions

Prepared details and student notes

Essential question
What is today's target?

Students will design a *C. elegans* investigation and plan a research poster as a project team. Big idea: A well-designed research question drives the entire investigation; vague questions produce uninterpretable data.

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

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

- A testable question specifies the organism, variable, and measurable outcome.
- A research poster communicates method, data, and conclusions in a standardized scientific format.
- Team role assignment ensures accountability and mirrors how biomedical research teams operate.

My notes, examples, and questions

Process notes
What happens during class?

- 0-10: Review: what makes a research question testable? (good vs. bad examples)
- 10-25: Team drafts testable question; teacher circulates and provides feedback
- 25-42: Define independent, dependent, and controlled variables; set target sample size
- 42-58: Outline poster sections: question, background, methods, results, conclusion
- 58-70: Assign each team member one poster section; note responsibilities
- 70-80: Share design plan with another team for quick feedback; submit plan

My notes, examples, and questions

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Steps and evidence What do I do and turn in?

- Review the components of a strong research question.
- As a team, draft a testable question about *C. elegans*.
- Define your variables, controls, and target sample size.
- Outline the poster sections you will need.
- Assign each team member a poster responsibility.

Evidence: Pre-lab - Team research design plan: testable question, defined variables, target sample size, poster section outline, and assigned member roles.

My notes, examples, and questions

Checks for understanding How do I know I got it?

- Team produces a testable question with defined variables.
- Poster plan assigns clear roles and sections.

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 Research design and poster plan. The main target was: Students will design a C. elegans investigation and plan a research poster as a project team. The evidence of learning is Pre-lab: Team research design plan: testable question, defined variables, target sample size, poster section outline, and assigned member roles.. In my own words, the most important idea from today is:

My summary

My final question or connection