Cornell Guided Notes

Human Anatomy & Physiology (Human Body Systems) | 2027-04-14

Name	Period	Date	Lesson
		2027-04-14	

Lesson focus

Data analysis and limitations

Key words and questions	Prepared details and student notes

Essential question
What is today's target?

Students will analyze their investigation data and write a CER that acknowledges experimental limitations. Big idea: Graphs make dose-response patterns visible; CER writing translates those patterns into scientific argument.

My notes, examples, and questions

Key words
What vocabulary unlocks the lesson?

- heavy metal
- toxicology
- hypothesis
- data table
- graph
- limitation
- conclusion

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?**	- A dose-response graph shows the relationship between concentration and biological effect. - Scientific claims must be supported by specific data, not general impressions. - Acknowledging limitations demonstrates scientific honesty and is required for the Evaluate Body Systems WebXam domain. **My notes, examples, and questions**
Process notes **What happens during class?**	- 0-12: Graph worm response vs. concentration; label axes, title, and units - 12-28: Identify the dose-response trend; decide on a specific claim - 28-48: Write full CER: claim, two specific data-point evidence entries, reasoning linking dose to response - 48-60: Add limitations section: at least two real limitations with brief explanation - 60-72: Peer review: partner checks claim specificity, evidence values, and limitations - 72-80: Revise and submit CER **My notes, examples, and questions**

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Cornell Notes - Continued

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Steps and evidence **What do I do and turn in?**	- Graph worm response across concentrations. - Make a claim about the effect of the heavy metal. - Cite two data points as evidence. - Add reasoning linking dose to response. - List two limitations of your investigation. Evidence: CER - Written CER with a dose-response claim, two specific data-point evidence entries, reasoning linking dose to worm response, and at least two limitations of the investigation. **My notes, examples, and questions**
Checks for understanding **How do I know I got it?**	- CER includes claim, evidence, and reasoning. - At least two real limitations are identified. **My notes, examples, and questions**

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Lab or safety notes
What must I handle carefully?

Supplies:
- C. elegans plates or validated heavy-metal simulation
- Heavy-metal solution or simulated treatment cards
- Stereo microscope or simulation device
- Data table and graph paper or graphing app
- Gloves and goggles
- Lab notebook

My notes, examples, and questions

Summary

Today's lesson focused on Data analysis and limitations. The main target was: Students will analyze their investigation data and write a CER that acknowledges experimental limitations. The evidence of learning is CER: Written CER with a dose-response claim, two specific data-point evidence entries, reasoning linking dose to worm response, and at least two limitations of the investigation.. In my own words, the most important idea from today is:

My summary

My final question or connection