Cornell Guided Notes

Human Anatomy & Physiology (Human Body Systems) | 2026-12-08

Name	Period	Date	Lesson
		2026-12-08	

Lesson focus

Vaccine data CER analysis

Key words and questions	Prepared details and student notes

Essential question
What is today's target?

Students will analyze vaccine and antibody data and write a CER about immunity. Big idea: Antibody-level graphs are the quantitative evidence that vaccines generate durable immune memory.

My notes, examples, and questions

Key words
What vocabulary unlocks the lesson?

- skin
- lymph
- antibody
- antigen
- pathogen
- vaccine
- innate
- adaptive

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?**	- A post-vaccination antibody graph typically shows a primary peak followed by a higher, faster secondary peak after a booster or re-exposure. - Memory B cells are the cellular basis of long-term vaccine protection. - Limitations of antibody data include waning immunity over time and individual variation in response. **My notes, examples, and questions**
Process notes **What happens during class?**	- 0-10: Distribute and orient the vaccine antibody graph; label key features (peaks, doses, time axis) - 10-25: Guided annotation: mark primary response, secondary response, memory cell involvement - 25-45: Draft CER: claim about vaccine immunity, two data-point evidence entries, reasoning naming memory cells - 45-58: Add limitations section: at least one real limitation explained briefly - 58-70: Peer review: check that reasoning explicitly names memory cells and a mechanism - 70-80: Revise and submit CER **My notes, examples, and questions**

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Steps and evidence **What do I do and turn in?**	- Examine a graph of antibody levels after vaccination. - Make a claim about how vaccines build immunity. - Cite two data points as evidence. - Add reasoning connecting memory cells to protection. - Note one limitation of the data. Evidence: CER - Written CER analyzing a vaccine antibody graph: claim about how vaccines build immunity, two specific data-point evidence entries, reasoning connecting memory B cells to protection, and one limitation. **My notes, examples, and questions**
Checks for understanding **How do I know I got it?**	- CER includes claim, evidence, and reasoning. - Reasoning correctly explains immune memory. **My notes, examples, and questions**

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Lab or safety notes
What must I handle carefully?

Supplies:
- Immune-system modeling kit or labeled cutouts
- Antigen and antibody shape cards
- Skin and lymphatic system diagrams
- Colored markers
- Chart paper
- Lab notebook

My notes, examples, and questions

Summary

Today's lesson focused on Vaccine data CER analysis. The main target was: Students will analyze vaccine and antibody data and write a CER about immunity. The evidence of learning is CER: Written CER analyzing a vaccine antibody graph: claim about how vaccines build immunity, two specific data-point evidence entries, reasoning connecting memory B cells to protection, and one limitation.. In my own words, the most important idea from today is:

My summary

My final question or connection