Cornell Guided Notes

Principles of Biomedical Technology (Principles of Biomedical Science) | 2026-10-02

Name	Period	Date	Lesson
		2026-10-02	

Lesson focus

Analyze vital signs

Key words and questions	Prepared details and student notes
Essential question **What is today's target?**	Interpret collected vital signs against normal ranges with a CER and assess limitations. Big idea: A single vital-sign reading interpreted against its normal range is a snapshot of homeostasis, but only repeated measurements reveal a true trend. **My notes, examples, and questions**
Key words **What vocabulary unlocks the lesson?**	- chief complaint - symptom - vital sign - pulse - blood pressure - respiration - HIPAA - homeostasis **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 vital sign outside the normal range indicates that a homeostatic negative feedback mechanism may be failing or responding to a stressor. - Two variables that commonly skew vital-sign readings are recent physical activity (elevates pulse and respiration) and anxiety or white-coat effect (elevates blood pressure). - A single-time-point measurement cannot distinguish a transient response from a chronic condition; clinical interpretation always considers context and trends. **My notes, examples, and questions**
Process notes **What happens during class?**	- 0:00: Return Wednesday EMR entries; review class-wide distribution of readings (anonymized) - 0:10: For each vital sign: compare to normal range and note whether it is within, above, or below - 0:22: For any out-of-range reading: identify the feedback mechanism and a plausible cause - 0:36: CER writing: claim (homeostasis maintained or not), evidence (specific readings vs. ranges), reasoning (feedback mechanism connection) - 0:56: List two variables that could skew a vital-sign reading; state the limitation of a single-time-point measurement - 1:10: Pair-share CERs; preview Friday submission **My notes, examples, and questions**

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Steps and evidence **What do I do and turn in?**	- Compare each recorded vital sign to its normal range. - Write a CER: do the readings suggest homeostasis is maintained? - Explain how a value outside range relates to a feedback mechanism. - Identify two variables that could skew a vital-sign reading. - State one limitation of a single-time-point measurement. Evidence: CER - CER arguing whether your partner's vital signs suggest homeostasis is maintained, using Wednesday's EMR readings as evidence and connecting at least one reading to its homeostatic feedback mechanism in the reasoning. **My notes, examples, and questions**
Checks for understanding **How do I know I got it?**	- I can interpret vital signs against normal ranges. - I can connect a reading to homeostatic feedback. **My notes, examples, and questions**

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Lab or safety notes
What must I handle carefully?

Supplies:
- Sphygmomanometer (blood pressure cuff)
- Stethoscope
- Digital or analog stopwatch
- Pulse oximeter
- Patient history and vital signs chart
- Alcohol wipes for shared equipment

My notes, examples, and questions

Summary

Today's lesson focused on Analyze vital signs. The main target was: Interpret collected vital signs against normal ranges with a CER and assess limitations. The evidence of learning is CER: CER arguing whether your partner's vital signs suggest homeostasis is maintained, using Wednesday's EMR readings as evidence and connecting at least one reading to its homeostatic feedback mechanism in the reasoning.. In my own words, the most important idea from today is:

My summary

My final question or connection