

Cornell Guided Notes

Principles of Biomedical Technology (Principles of Biomedical Science) | 2026-09-16

Name

Period

Date

Lesson

Lesson focus

Body systems and tissues

Key words and questions

Prepared details and student notes

Essential question
What is today's target?

Relate organ systems to tissue types and prepare for the PLTW morgue task. Big idea: Every organ in the body is built from combinations of just four tissue types, and damage to those tissues tells the pathologist what went wrong.

My notes, examples, and questions

Key words
What vocabulary unlocks the lesson?

- homeostasis
- tissue
- organ system
- toxicology
- histology
- mechanism of death

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?

- The four primary tissue types are epithelial (covering/lining), connective (support/binding), muscle (movement), and nervous (communication).
- A pathologist identifies cause of death by looking for tissue-level changes such as necrosis, inflammation, or structural damage in histology slides.
- Organ systems are not independent: the cardiovascular system depends on muscular tissue and connective tissue, and a failure in one tissue type can cascade across systems.

My notes, examples, and questions

Process notes
What happens during class?

- 0:00: Quick-draw warm-up: sketch what you think a cell looks like; compare to actual cell diagrams
- 0:08: Teacher-led notes: four tissue types, defining features of each, which organs they build
- 0:28: Mapping activity: draw two organ systems and label which tissue types make up each structure
- 0:42: myPLTW: complete the master-the-morgue body-systems online task
- 1:02: Write observation variables for Wednesday's microscopy: what will you record for each slide?
- 1:10: Exit ticket: name the four tissue types and one identifying feature of each

My notes, examples, and questions

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Steps and evidence
What do I do and turn in?

- Take notes on the four primary tissue types and their functions.
- Map two organ systems to the tissues that build them.
- Review how a pathologist links tissue damage to cause of death.
- Complete the PLTW master-the-morgue online task on body systems.
- Note the observation variables you will record during microscopy.

Evidence: Exit ticket - Exit ticket: name all four tissue types, one identifying structural feature of each, and one organ that contains each type.

My notes, examples, and questions

Checks for understanding
How do I know I got it?

- I can name the four tissue types and their roles.
- I can connect a tissue to the organ system it serves.

My notes, examples, and questions

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Lab or safety notes
What must I handle carefully?

Supplies:

- Compound light microscope
- Prepared tissue slides (muscle, epithelial, nervous)
- Preserved heart or anatomical heart model
- Dissection tray and probe
- Nitrile gloves
- Lab notebook for histology sketches
- Sample toxicology data sheet

My notes, examples, and questions

Summary

Today's lesson focused on Body systems and tissues. The main target was: Relate organ systems to tissue types and prepare for the PLTW morgue task. The evidence of learning is Exit ticket: Exit ticket: name all four tissue types, one identifying structural feature of each, and one organ that contains each type.. In my own words, the most important idea from today is:

My summary

My final question or connection