

# Cornell Guided Notes

Principles of Biomedical Technology (Principles of Biomedical Science) | 2026-12-08

Name

Period

Date

Lesson

## Lesson focus

Design justification CER

## Key words and questions

## Prepared details and student notes

**Essential question**  
**What is today's target?**

Students write a CER justifying their app design choices against user needs and usability principles. Big idea: A design is only as justifiable as the user evidence behind it: a CER forces you to prove that each choice serves a real need.

**My notes, examples, and questions**

**Key words**  
**What vocabulary unlocks the lesson?**

- surge capacity
- mobile care
- public health
- surveillance
- communication
- usability

**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?**

- Design justification means tracing each feature back to a specific persona need and a usability principle.
- A prediction about improved communication is based on mechanism, not hope: link the feature to the behavior change it enables.
- Design assumptions include: that the persona is realistic, that users have smartphones, and that the surge scenario is accurate.

**My notes, examples, and questions**

**Process notes**  
**What happens during class?**

- 0-8 min: Review Wednesday personas and wireframe; identify two design choices you can most strongly justify.
- 8-20 min: Write the claim: one sentence stating the design meets target users' surge communication needs.
- 20-42 min: Write evidence: cite persona needs and specific feature-list items as separate evidence points.
- 42-58 min: Write reasoning: link each design choice to a named usability principle.
- 58-70 min: Write prediction and add design assumptions and limitations.
- 70-80 min: Peer review: confirm claim is specific, evidence cites persona, limitation is stated.

**My notes, examples, and questions**

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#### Steps and evidence What do I do and turn in?

- State a claim that the design meets the target users' surge needs.
- Cite persona and feature-list evidence tied to specific needs.
- Explain reasoning that links each design choice to a usability principle.
- Predict how the design improves communication during a surge.
- Identify assumptions and limitations in the design process.

Evidence: CER - CER with a specific design-claim, persona and feature-list evidence, reasoning linking choices to usability principles, a communication improvement prediction, and design assumptions and limitations.

#### My notes, examples, and questions

#### Checks for understanding How do I know I got it?

- Write a CER justifying design choices with user-need evidence.
- Tie choices to usability principles and state one limitation.

#### 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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## Cornell Notes - Continued

### Summary

Today's lesson focused on Design justification CER. The main target was: Students write a CER justifying their app design choices against user needs and usability principles. The evidence of learning is CER: CER with a specific design-claim, persona and feature-list evidence, reasoning linking choices to usability principles, a communication improvement prediction, and design assumptions and limitations.. In my own words, the most important idea from today is:

**My summary**

**My final question or connection**