

# Cornell Guided Notes

Principles of Biomedical Technology (Principles of Biomedical Science) | 2026-09-02

Name

Period

Date

Lesson

## Lesson focus

Scene documentation lab

## Key words and questions

## Prepared details and student notes

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

Document a mock crime scene to SOP standard and examine trace evidence under magnification with a team. Big idea: Forensic documentation is a team SOP: every role is essential, and a break anywhere in the process weakens the entire chain.

**My notes, examples, and questions**

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

- forensic
- trace evidence
- biometric
- observation
- inference
- chain of custody
- control sample

**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?**

- Scale markers (rulers) and orientation notes (compass direction, room label) must appear in every scene photograph.
- Trace evidence such as fibers and hair is collected with forceps into labeled, sealed bags and logged immediately on the evidence form.
- Microscope magnification must be recorded with any sketch or observation so that scale can be interpreted later.

**My notes, examples, and questions**

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

- 0:00: Assign or confirm roles; review scene SOP as a class; set safety expectations for specimen handling
- 0:10: Scene documentation: teams photograph and sketch scene (do not touch items yet)
- 0:25: Evidence collection: log each item, bag, and seal with team signatures on custody label
- 0:40: Microscopy station: examine assigned trace sample; sketch at 40x and 100x with magnification labeled
- 1:00: Record one documentation limitation and one contamination risk in lab notebook
- 1:10: Scene packet review as a class; preview Thursday analysis

**My notes, examples, and questions**

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

- Read the scene SOP and assign roles: photographer, sketcher, logger.
- Photograph and sketch the scene with a scale marker and orientation note.
- Collect and label trace evidence, recording each item in the evidence log.
- Examine a trace sample (fiber or hair) under magnification and describe it.
- Record one limitation of your documentation and one possible contamination source.

Evidence: Lab report - Team scene packet: one photo with scale marker, scaled sketch with orientation, completed evidence log, microscopy sketch at two magnifications, and one contamination risk noted.

#### My notes, examples, and questions

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

- I can document a scene following an SOP with my team.
- I can describe trace evidence observed under magnification.

#### My notes, examples, and questions

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**Lab or safety notes**  
**What must I handle**  
**carefully?**

#### Safety:

- Treat all biological trace samples (hair, fiber) as potentially hazardous: wear gloves when handling and do not touch your face.
- Used forceps must be placed in the designated container between uses; never lay them on the table surface.
- Microscope slides are glass: handle with care; report any breakage immediately and use the sharps disposal container.
- Evidence bags containing trace material must remain sealed after logging; do not open them without teacher direction.
- Wash hands with soap and water after completing the trace-evidence station, even if gloves were worn.

#### Supplies:

- Rulers (metric, for scale markers in photos)
- Smartphones or classroom cameras for scene photography
- Graph paper for scene sketches
- Compound microscopes (one per team)
- Prepared slides or fresh fiber/hair samples in sealed slide mounts
- Forceps (for trace-evidence collection only)
- Self-sealing evidence bags (small zip-lock or coin envelopes)

#### My notes, examples, and questions

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## Cornell Notes - Continued

### Summary

Today's lesson focused on Scene documentation lab. The main target was: Document a mock crime scene to SOP standard and examine trace evidence under magnification with a team. The evidence of learning is Lab report: Team scene packet: one photo with scale marker, scaled sketch with orientation, completed evidence log, microscopy sketch at two magnifications, and one contamination risk noted.. In my own words, the most important idea from today is:

**My summary**

**My final question or connection**