



OHIO CSI FORENSIC DIVISION

UNIT 1 · MEDICAL INVESTIGATION · CASE STATIC

Period 1-2 · Statik Sound, a neighborhood recording studio

FORM NO. CSI-1-D18-S
CASE NO. JH-26-0831-A
REV. 2026-27
PAGE ____ OF ____

FOR EDUCATIONAL USE

OHIO CSI FORENSIC DIVISION

DO NOT DISTRIBUTE ANSWER KEYS

DAILY EVIDENCE SHEET

Oct 8 · Investigation Day 18 of 18 · Case Closed

OFFICIAL

WEBXAM · DOMAIN 2 BIOTECHNOLOGY RESEARCH AND EXPERIMENTS · OHIO OUTCOMES 5.8 AND 1.2

VOCABULARY IN BOLD IS DEFINED WHERE IT FIRST APPEARS

INVESTIGATOR CODE (PERIOD + CODE, NOT YOUR NAME)	TEAM	DATE
		Oct 8, 2026

WHY TODAY MATTERS, IN PLAIN ENGLISH

SEC 00

Real investigators end a case with a written report in which every single **claim** is sized exactly to the evidence behind it, no more. Today you write yours, and the discipline you used all case, claim only what you can show, is the thing you carry out the door.

Today you will: write your individual case report: the full CER, signed by you as its author, closing the case your unit worked for eighteen days.

The ten-year idea: You now own a transferable discipline: claims sized to evidence, limits stated, independence demanded. It works on lab reports, news feeds, and big decisions, not just death cases.

CLAIM: the sentence your report exists to defend: manner and cause as the evidence supports them. Analogy to hold onto: the headline.

LIMITATION: the honest weakness you can defend: the assumption or gap that most threatens your conclusion. Analogy to hold onto: the asterisk you write yourself.

PART A · READ THE BRIEFING, THEN ANSWER FROM THE TEXT

SEC 01

The case report is the unit's final performance, and it is individual: the board was OUR argument; the report is YOURS. Structure (the Final CER planner page in your notebook walks you through it): case summary in three sentences; **CLAIM:** manner and cause as the evidence supports them; **EVIDENCE:** at least four exhibits by E-number across at least three threads, each in one factual sentence; **REASONING:** the rules that connect them (the flow logic, the corroboration standard, timing, whichever carried your case); the **EXONERATIONS:** each cleared

suspect with their clearing evidence; the **LIMITATION**: the strongest honest weakness of your conclusion; and the claim-ceiling sentence you wrote on day 15.

Write it in plain English. A report a younger student could follow is a report that understands itself. Technical terms you earned this unit (the vocabulary bank is your glossary) are welcome; jargon fog is not.

Last thing, and it is the point of the whole unit: this discipline transfers. Every **claim** you meet from now on, from a headline to a lab result to a friend's certainty, can be asked the same three questions you asked this case: what is the evidence, is it independent, and where must the claim stop? That is what you take with you.

Answer from the reading above. Cite the sentence you used by copying its first three words in quotation marks.

PBS-U1-
D18-A1

List the parts of the case report in the order the reading gives them. Copy the first three words of the sentence you used.

PBS-U1-
D18-A2

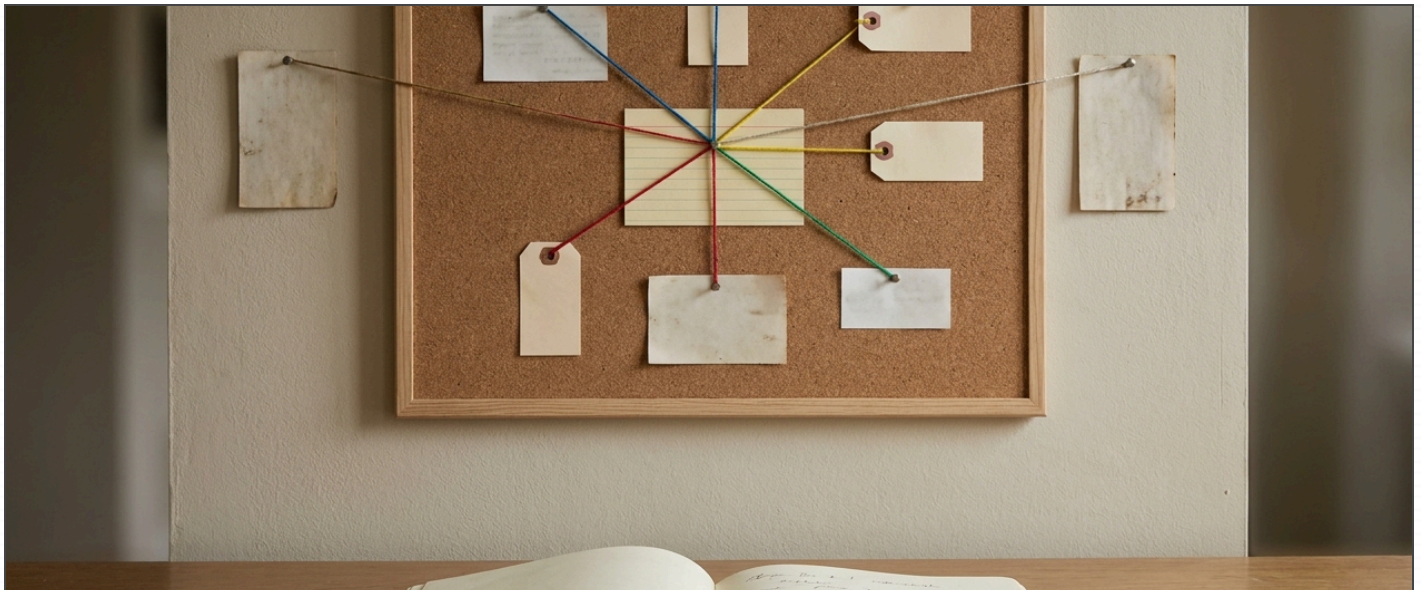
The reading says a report a younger student could follow is a report that understands itself. What does that mean for the words you choose?

WORKED EXAMPLE, STEP BY STEP (A PRACTICE CASE, NOT OURS)

SEC 01A

A mini case report CER for a practice case: the Larkspur greenhouse (made up)

Using the greenhouse exhibits P1 to P7 and the repaired board from the Day 17 example, write the shortest complete case report: summary, claim, four exhibits across three threads, reasoning, exoneration, limitation, ceiling.



What to notice: Notice that four different colors reach the center and that the report page on the table is written from the board, not the other way around: if the board cannot show it, the report cannot claim it.

1. Summary in three sentences, for a reader who was not in the room. Result: 'A 58-year-old groundskeeper was found dead at 6:00 PM on the floor of a closed glass greenhouse on a 34 C July day. He had texted at 12:50 PM that he was fixing the vent fan. A coworker who argued with him that morning had left the site at 11:30 AM.'
2. Claim sentence, manner and cause as the evidence supports them. Result: 'The evidence supports that he died of heat exposure (cause) inside a greenhouse sealed by a failed vent fan, an accident (manner), with old heart disease as a contributing condition.'
3. Evidence: four exhibits across three threads, one factual sentence each, and the independence check. P4 (records): the thermostat log shows 46 C inside from 1:00 to 4:30 PM. P2 (chemistry): screens negative; blood sodium very high and blood concentrated, the pattern of severe dehydration. P6 (scene): the vent fan motor was burned out and the shutters jammed shut. P3 (medical): no injuries; old heart scarring, no fresh damage. Result: four exhibits, four threads; each row independent of the row above because the method and the sample differ (a log, a blood draw, a machine inspection, an autopsy).
4. Reasoning: name the rules that connect them. Corroboration: three independent threads agree on a hot sealed room and a body that lost water. Timing: P5 (records) puts him inside during the logged hot window. Exclusion: P1 (latched from inside, no struggle) and P3 (no injuries) remove the homicide branch; P2 removes poisoning. Result: every link named by rule and P-number.
5. Exonerations: the coworker, with the sentence type earned. Result: 'The evidence shows it was not them: P7 badges them out at 11:30 AM with no return, and P1 shows the door latched from the inside.'
6. Limitation and the change-my-mind sentence. Result: 'Nobody saw the collapse, and the inside temperature rests on one thermostat log. If that log were shown to be miscalibrated and the dehydration values had another explanation, the accident claim would weaken; a record placing another person inside after 11:30 AM would reopen the homicide branch.'
7. Ceiling sentence, written in advance and applied now. Result: 'This report supports manner and cause as stated; it does not claim to know the exact minute of death or whether he could have escaped had the shutters opened.'

Finished product: A seven-part mini report: three-sentence summary; claim (accidental heat death, heart disease contributing); P4, P2, P6, P3 across records, chemistry, scene, medical; reasoning by corroboration, timing (P5), and exclusion (P1, P3); coworker exonerated by P7 and P1; limitation with a change-my-mind sentence; the ceiling.

Now do the same steps on today's real data in Part B. If you were in class, use your team's data. If you were absent or are new, use the canned data set below.

IF YOU WERE NOT IN CLASS: THE DATA YOU NEED

SEC 01B

ABSENT OR NEW TO THE CLASS? START HERE

Report day: no new exhibits. The planner was walked through, then a silent writing block. Below is the evidence log by thread with what each exhibit supports in the claim, so you can fill the citation table in Part B. The board photo is at the teacher station.

The class's draft claim (Day 16, refined on the board Day 17)	Manner natural: complications of diabetic ketoacidosis from a type 1 diabetes diagnosed long ago and recently untreated, with an accidental head injury from a fall onto the console corner contributing; all four persons of interest cleared by evidence.
Chemistry thread: E5, E10, E6	E5 (meter 412 mg/dL then HI) supports cause. E10 (screens negative; vitreous glucose 612; ketone 8.2; potassium 6.4; bicarbonate 9) supports cause and excludes poisoning. E6 (expired, sealed insulin pen) supports cause (treatment had lapsed).
Medical thread: E11, E12, E13	E11 (laceration with paint transfer and vital response; no fracture; no bleeding inside the skull; no defensive wounds) supports the fall and excludes a fatal blow. E12 (islet destruction; kidney osmotic change; wound vital response) supports cause on a sample no meter error can fake. E13 (room temperature, rigor passed, livor fixed anterior) supports the timeline and excludes a moved body.
Scene thread: E1, E3	E1 (prone behind the console, cabinet across the legs, no drag marks) supports the fall and the timeline. E3 (passive drops and contact smear, no impact or cast-off) supports the fall and excludes a swung blow.
Serology and DNA thread: E2, E2b, E4, E-STR	E2 and E2b (stains presumptive positive, type B, STR = victim) support the fall (his own blood) and exclude every person of interest as the stain source. E4 and E-STR (can DNA = victim; Cole and Vasquez excluded) exclude another person's presence at the table.
Trace thread: E7, E8	E7 (two victim hairs; one Cole hair with no root tag) and E8 (victim 12-point; Cole aged partial; cleaner elimination) support the exonerations (no fresh trace of anyone) and exclude a struggle.
Records thread: DOC-6, E9b, E14, E15	DOC-6 (no entry after Bell's Sat 2:15 PM until Cole Mon 7:38 AM) times the whole window and exonerates Cole, Okoye, and Tran. E9b (DMs 11 months old) exonerates Vasquez's motive line. E14 (Okoye on stage 10:14 PM) supports Okoye's exoneration for one moment. E15 (HVAC fault) excludes the 3:00 AM alarm as an entry.
Exonerations, each with the deciding exhibit	Cole: DOC-6. Vasquez: E9b with E2b and E-STR. Okoye: DOC-6 (E14 corroborates). Tran: DOC-6 (master key unused).
Independence check hints	Same thread = same voice: E5 and E10 count as one thread; E11, E12, E13 as one; E2 and E4 as one. Different thread = independent when the method and the sample differ (a door log, a blood panel, a slide, a spatter card).
Practice-numbers data for item B3	Word limit 600; summary 60; claim 40; limitation and ceiling together 50. (Do the arithmetic on the sheet.)

Use these values exactly as your team's data for Part B and Part E. Write "canned data set" at the top of Part B so Mr. Mendoza scores it as make-up work. Where the case file does not fix a number (room measurements,

clock times, hair features), the value here is a classroom placeholder; your room's real numbers replace it.

PART B · WORK THE EVIDENCE

SEC 02

Before you write, prove the spread. Fill the citation table from your board and matrix. Then check the count.

SPREAD: how many different threads your cited exhibits come from. Four exhibits from one thread is one voice; four across three threads is corroboration.

EXHIBIT (E-NUMBER)	THREAD	WHAT IT SUPPORTS IN THE CLAIM (MANNER, CAUSE, AN EXONERATION, THE TIMELINE)	IS IT INDEPENDENT OF THE ROW ABOVE? (YES OR NO, WHY)

PBS-U1-D18-B1

Citation table complete: at least four exhibits, their threads, their role, independence checked. (Scored on the table.)

PBS-U1-D18-B2

Count the distinct threads in your table. Does the report meet four exhibits across three threads? If not, which thread can you add from the board?

PBS-U1-D18-B3

Practice numbers. The report has a 600-word limit. Your summary is 60 words, your claim 40, your limitation and ceiling together 50. How many words remain for evidence and reasoning, and what percent of the report is that? Show the arithmetic.

PART C · WRITE THE CALL

SEC 03

Write the claim paragraph and the limitation paragraph of your report here first, as the draft you will copy into the planner. Include these parts: the claim sentence, the four exhibits by E-number with their threads, the reasoning rule that connects them (corroboration, exclusion, or timing), the strongest limitation, and the sentence that says what evidence would change your conclusion.

Claim ceiling. Your own claim ceiling, written on Day 15, applies today. Say the strongest sentence the evidence carries and no stronger.

PBS-U1-
D18-C1

Your writing:

[illegible]

PART D • VOCABULARY IN USE

SEC 04

PBS-U1-
D18-D1

Use **claim** and **limitation** correctly in one or two sentences about today's work. A definition alone does not count; use the words about something real.

PART E • SELF-CHECK AND EXIT

SEC 05

One line each. These come from today's pack; answer from memory first, then check.

PBS-U1-
D18-E1

Minimum citation spread for the report?

PBS-U1-
D18-E2

☐

Where does your limitation sentence come from?

PBS-U1-
D18-E3

☐

What transfers from this unit to the next headline you read?

TURN IN

SLIP

Final case report CER: Complete report per planner checklist; Signed; Filed in the case file.

Hand this sheet to Mr. Mendoza before you leave. The notebook pages named on today's pack stay in your Investigative Notebook.

STANDARDS CITED ON THIS SHEET, AND HOW IT IS USED IN DATA-DRIVEN INSTRUCTION

REF

WebXam alignment. Principles and Practice of Biomedical Technology (code 072110), Biotechnology Research and Experiments (46.07 percent of the test), Ohio outcome 5.8 Biotechnology Research and Experiments.

Ohio Health Science	5.8.12	Prepare and present findings using scientific reports.
Ohio Health Science	5.8.11	Draw conclusions and propose next steps based on observations and data analysis, recognizing that experimental results must be open to the scrutiny of others.
Ohio Health Science	1.2.12	Use technical writing skills to complete forms and create reports.
Ohio Health Science	1.2.6	Use proper grammar and expression in all aspects of communication.
PLTW PBS framework	EXD-A.8	Communicate experimental findings with appropriate audiences both orally and in writing.
PLTW PBS framework	EXD-B.4	Draw logical conclusions from experimental data.
PLTW PBS framework	COM-A.1	Follow acceptable formats for writing assignments and professional presentations.
Common Core	WHST.9-10.1	Write arguments focused on discipline-specific content: precise claims, relevant evidence, and reasoning that connects them.
Common Core	WHST.9-10.2	Write informative or explanatory texts, including scientific procedures and technical processes, with precise language and domain-specific vocabulary.
Common Core	RST.9-10.8	Assess the extent to which the reasoning and evidence in a text support the author's claim or recommendation.
Common Core	HSN-Q.A.3	Choose a level of accuracy appropriate to limitations on measurement when reporting quantities.
NGSS	SEP-7	Engaging in argument from evidence: evaluate the claims, evidence, and reasoning behind currently accepted explanations.

How this sheet is used in DDI. Each item carries a code (for example PBS-U1-D18-B2). Mr. Mendoza scores every item 0, 1, or 2 (2 = complete and correct, 1 = partly, 0 = missing or wrong) and records the scores by period and investigator code, never by name. The scores roll up into these skills:

PBS.S.18a	Structure a case report: summary, claim, evidence, reasoning, exonerations, limitation, ceiling	items A1, E1, E3
PBS.S.18b	Cite four exhibits across three independent threads and show the spread	items B1, B2, B3
PBS.S.18c	Write for a reader who was not in the room	items A2, C1, D1
PBS.S.18d	Name the limitation and say what would change the conclusion	items E2

Mastery rule. A skill is on track when at least two of its items score 2 (or its single item scores 2). A skill below that routes you to today's pack, SEC 02 (Background and briefing), and to the matching page on the portal, and it comes back as a warm-up question next week. These scores are Mr. Mendoza's instructional record for deciding what to reteach. They are not the report-card grade, which lives in Schoology.