

P1-C: instrument-check record

BLANK empirical form. Use one copy for each group/phase, or attach a clearly identified teacher-recorded check for your exact probes. Follow P1-C. Keep before and after values. This checks consistency and response, not calibration.

P1-C3. Record group/date/phase and check-record ID; probe A/B maker/model/IDs; teacher-checked immersion/response instructions and required wait; classroom air instrument ID/location. Record any supplied maker accuracy information as stated, or “not available”; do not infer it from display resolution.

P1-D-BLANK-CHECK: BLANK empirical form; °C readings, wait in seconds; second read 30 s after first.

Blank empirical instrument-check record; no readings supplied.

Check water	A read1 °C	B read1 °C	A read2 °C	B read2 °C	Wait s
Before: room					
Before: cool					
After: room					
After: cool					

Record actual check timestamps, conditions, replacement instrument IDs and action here or on an attached named note. Link every run to its check ID. If instruments are replaced mid-phase, use a new check record and fresh samples.

P1-F1: fresh paired trial 1

Blank empirical record. Run F1; reference: P0 bare; prototype: P1 one dry felt sheet. Use P1-M and P1-C. Record °C exactly as displayed; never invent a missing reading.

P1-F1-SET. Record group/date; cup and sensor IDs/left-right positions; cover and sleeve condition; measured mL each; common-batch temperature; probe response interval; linked instrument-check record ID (P1-S-DEVICE).

P1-D-BLANK-F1: BLANK empirical record; minutes and °C, actual timestamps required.

Blank empirical recording form: no readings supplied.

Target min	Actual clock	Reference °C	Prototype °C	Room °C	Notes
0	_____	_____	_____	_____	_____
5	_____	_____	_____	—	_____
10	_____	_____	_____	_____	_____

P1-F1-LOG. Record changes, late/missing readings, wet materials, spills or movement, even if the result looks surprising. Mark usable, flagged or failed start; give a reason. Record any fresh replacement run with a new ID.

P1-F2: fresh paired trial 2

Blank empirical record. Run F2; reference: P0 bare; prototype: P1 one dry felt sheet. Use P1-M and P1-C. Record °C exactly as displayed; never invent a missing reading.

P1-F2-SET. Record group/date; cup and sensor IDs/left-right positions; cover and sleeve condition; measured mL each; common-batch temperature; probe response interval; linked instrument-check record ID (P1-S-DEVICE).

P1-D-BLANK-F2: BLANK empirical record; minutes and °C, actual timestamps required.

Blank empirical recording form: no readings supplied.

Target min	Actual clock	Reference °C	Prototype °C	Room °C	Notes
0	_____	_____	_____	_____	_____
5	_____	_____	_____	—	_____
10	_____	_____	_____	_____	_____

P1-F2-LOG. Record changes, late/missing readings, wet materials, spills or movement, even if the result looks surprising. Mark usable, flagged or failed start; give a reason. Record any fresh replacement run with a new ID.

P1-F3: fresh paired trial 3

Blank empirical record. Run F3; reference: P0 bare; prototype: P1 one dry felt sheet. Use P1-M and P1-C. Record °C exactly as displayed; never invent a missing reading.

P1-F3-SET. Record group/date; cup and sensor IDs/left-right positions; cover and sleeve condition; measured mL each; common-batch temperature; probe response interval; linked instrument-check record ID (P1-S-DEVICE).

P1-D-BLANK-F3: BLANK empirical record; minutes and °C, actual timestamps required.

Blank empirical recording form: no readings supplied.

Target min	Actual clock	Reference °C	Prototype °C	Room °C	Notes
0	_____	_____	_____	_____	_____
5	_____	_____	_____	—	_____
10	_____	_____	_____	_____	_____

P1-F3-LOG. Record changes, late/missing readings, wet materials, spills or movement, even if the result looks surprising. Mark usable, flagged or failed start; give a reason. Record any fresh replacement run with a new ID.

P1-R1: fresh paired trial 1

Blank empirical record. Run R1; reference: P1 original one-sheet sleeve; prototype: P2 declared redesign. Use P1-M and P1-C. Record °C exactly as displayed; never invent a missing reading.

P1-R1-SET. Record group/date; cup and sensor IDs/left-right positions; cover and sleeve condition; measured mL each; common-batch temperature; probe response interval; linked instrument-check record ID (P1-S-DEVICE).

P1-D-BLANK-R1: BLANK empirical record; minutes and °C, actual timestamps required.

Blank empirical recording form: no readings supplied.

Target min	Actual clock	Reference °C	Prototype °C	Room °C	Notes
0	_____	_____	_____	_____	_____
5	_____	_____	_____	—	_____
10	_____	_____	_____	_____	_____

P1-R1-LOG. Record changes, late/missing readings, wet materials, spills or movement, even if the result looks surprising. Mark usable, flagged or failed start; give a reason. Record any fresh replacement run with a new ID.

P1-R2: fresh paired trial 2

Blank empirical record. Run R2; reference: P1 original one-sheet sleeve; prototype: P2 declared redesign. Use P1-M and P1-C. Record °C exactly as displayed; never invent a missing reading.

P1-R2-SET. Record group/date; cup and sensor IDs/left-right positions; cover and sleeve condition; measured mL each; common-batch temperature; probe response interval; linked instrument-check record ID (P1-S-DEVICE).

P1-D-BLANK-R2: BLANK empirical record; minutes and °C, actual timestamps required.

Blank empirical recording form: no readings supplied.

Target min	Actual clock	Reference °C	Prototype °C	Room °C	Notes
0	_____	_____	_____	_____	_____
5	_____	_____	_____	—	_____
10	_____	_____	_____	_____	_____

P1-R2-LOG. Record changes, late/missing readings, wet materials, spills or movement, even if the result looks surprising. Mark usable, flagged or failed start; give a reason. Record any fresh replacement run with a new ID.

P1-R3: fresh paired trial 3

Blank empirical record. Run R3; reference: P1 original one-sheet sleeve; prototype: P2 declared redesign. Use P1-M and P1-C. Record °C exactly as displayed; never invent a missing reading.

P1-R3-SET. Record group/date; cup and sensor IDs/left-right positions; cover and sleeve condition; measured mL each; common-batch temperature; probe response interval; linked instrument-check record ID (P1-S-DEVICE).

P1-D-BLANK-R3: BLANK empirical record; minutes and °C, actual timestamps required.

Blank empirical recording form: no readings supplied.

Target min	Actual clock	Reference °C	Prototype °C	Room °C	Notes
0	_____	_____	_____	_____	_____
5	_____	_____	_____	—	_____
10	_____	_____	_____	_____	_____

P1-R3-LOG. Record changes, late/missing readings, wet materials, spills or movement, even if the result looks surprising. Mark usable, flagged or failed start; give a reason. Record any fresh replacement run with a new ID.