

Independent task · Initial record

This initial/new pair is also Use a Quick Check. It repeats I from Teach the Lesson; it is not fresh after I has been attempted. Goal: evaluate evidence about limiting cooling. Write a bounded initial statement, then turn the page.

K5-D-I0 · Fresh 120 g water each trial; 40.0°C start; 22°C surroundings; 15 min; covers P/Q. Cups/lids/exposure/procedure match. Display to 0.1°C; accuracy not supplied. Covered liquid water; no active heating/cooling, ice, phase change, direct sunlight or meaningful evaporative cooling. Room, cup, lid and supporting surfaces are at the stated surrounding temperature; it stays constant. Readings represent the sample temperature with a consistent procedure. This is a paper scenario, not apparatus instructions.

Initial paired endpoints

Constructed teaching data: these values were invented for this activity, not collected in an experiment.

Trial ID	Cover P final (°C)	Cover Q final (°C)
I-1	35.0	34.8
I-2	35.1	34.9

K5-I1. Compare changes and write an initial claim about these two trials. Explain how confident the record allows you to be.

Keep the original statement; do not erase it when new evidence arrives.

Independent task · New record

K5-D-I1 · Four additional fresh 120 g trials; 40.0°C start; 22°C surroundings; 15 min; versions/cups/lids/exposure/procedure match I0. Accuracy remains unknown. Covered liquid water; no active heating/cooling, ice, phase change, direct sunlight or meaningful evaporative cooling. Room, cup, lid and supporting surfaces are at the stated surrounding temperature; it stays constant. Readings represent the sample temperature with a consistent procedure. This is a paper scenario, not apparatus instructions.

New paired endpoints

Constructed teaching data: these values were invented for this activity, not collected in an experiment.

Trial ID	Cover P final (°C)	Cover Q final (°C)
I-3	34.7	35.0
I-4	35.1	34.9
I-5	34.9	35.0
I-6	35.0	35.1

K5-I2. Using all six trials, decide whether to retain, narrow, change or remain uncertain. Give a revised claim and specific comparisons, including any contrary result.

K5-I3. What useful next evidence would address the uncertainty? Does overlap establish identical performance? Does the newest row alone decide?