

Later check · Initial evidence

New cooling context. Record a bounded claim before the next page. Goal: limit cooling, not find the smallest final number.

K5-D-T0 · Fresh 110 g;38°C start;20°C surroundings;12 min;matched covers A/B,cups/lids/exposure/procedure. 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 later-check trials

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

Trial ID	Cover A final (°C)	Cover B final (°C)
T-1	32	28
T-2	31	27

K5-T1. Compare the cooling and write an initial claim with support and a limit.

Later check · New evidence

K5-D-T1 · Five additional fresh 110 g;38°C start;20°C surroundings;12 min;same versions/cups/lids/exposure/procedure as T0. No exclusions. 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.

Additional later-check trials

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

Trial ID	Cover A final (°C)	Cover B final (°C)
T-3	27	33
T-4	26	32
T-5	27	33
T-6	26	32
T-7	27	33

K5-T2. Revise using all seven trials. Identify weight/relevance, any contrary result and uncertainty. Retain, narrow, change or remain uncertain; justify a useful conclusion.

K5-T3. Name useful further evidence. Explain why the temperature pattern is consistent with net energy transfer, without inventing a specific pathway.