

Compare conditions before revising

22°C surroundings. Cups/lids/position/procedure match. Mass, start and duration differ between L and N and from the initial record. 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.

A new comparison with changed conditions

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

Trial ID / setup	Mass (g)	Start (°C)	Time (min)	Final (°C)
B-4 / L	80	12	20	18
B-4 / N	160	10	10	13
B-5 / L	80	12	20	19
B-5 / N	160	10	10	14

Fictional response: “Pool every endpoint; N is now better, so cross out the first conclusion.”

1. Find the changes and identify relevant condition differences. What can be described? What cannot be attributed to sleeve design alone? Evaluate the fictional response.

2. Revise or retain the particular earlier claim. Specify a more informative next comparison with actual matching values.