

Fresh recheck · Trace a new case

Fresh 100 g covered sample with a sleeve in 21°C surroundings. 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 sample readings

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

Sample	Start (°C)	After 10 min (°C)
Sleeved W	33	29

1. Explain this temperature change and the direction of net energy transfer. Does the sleeve generate cold or stop all transfer? Use the record and set a limit.