

Later check · Changed requirements

100 g, start 10°C, room 22°C, 20 min. Final ≤15°C in EVERY trial; ≤6 tokens; ≤18 mm added thickness. Covered liquid water; cups/lids, mass, starting temperature, duration, exposure and reading procedure match within and across trials. Surroundings stay at the stated room temperature. No ice, phase change, active heating/cooling, direct sunlight or meaningful evaporative cooling. Each trial uses fresh samples. Accuracy is not supplied.

K6-D-T0 · Supplied design record

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

Design	Tokens	Added mm	Trial 1 final °C	Trial 2 final °C	Trial 3 final °C
X	4	16	14	14.5	14
Y	6	18	13	13.5	13

K6-T1. Evaluate the original brief. Now lower the budget to 4 tokens but keep the other requirements and 22°C room. Which design, if any, is feasible? State the exact scope of that answer.

Record your answer before receiving T1. This is a new later task, not a validated equivalent form or a mastery test.

Later check · One new environment record

100 g, start 10°C, room 28°C, 20 min. Final ≤15°C in EVERY trial; ≤4 tokens; ≤18 mm added thickness. Covered liquid water; cups/lids, mass, starting temperature, duration, exposure and reading procedure match within and across trials. Surroundings stay at the stated room temperature. No ice, phase change, active heating/cooling, direct sunlight or meaningful evaporative cooling. Each trial uses fresh samples. Accuracy is not supplied.

K6-D-T1 · Supplied design record

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

Design	Tokens	Added mm	Trial 1 final °C	Trial 2 final °C	Trial 3 final °C
X only	4	16	17	17.5	17

K6-T2. Does X meet the 15°C criterion in this new record? Compare the new room with T0. What should be retained or narrowed, and can you rank X against Y at 28°C?

K6-T3. Suggest a next design or comparison while keeping the 4-token/18-mm limits. What would you do if the next readings were close or variable and accuracy was unknown?