

Independent Temperature Evidence

Temperature Evidence | Edition 1.0.0 | Student independent check | 1 of 2

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

Work without the model or teacher key visible. Use the complete table for both prompts.

Three separate trials use fresh 100 g water samples starting at 11°C in a 23°C room. Cups, lids, duration (20 minutes), exposure, and thermometer procedure match within and across trials. Endpoints are shown.

Trial	No sleeve (°C)	Sleeve C (°C)	Sleeve D (°C)
1	21	18	16
2	20	17	15
3	21	18	16

Independent question 1

Which sleeve is better supported for limiting warming here? Give at least two matched trial comparisons between C and D.

Independent Observations and Explanations

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Independent question 2

A classmate says Sleeve D cooled the water and stopped all energy transfer. Use the starting and ending temperatures to revise this statement. Then distinguish one observation from a qualitative energy-transfer explanation, and name a limit with useful next evidence.
