

Compare two sliding surfaces

GS_W3B | Tuesday 09:30–10:10 | Name: _____

I can: Use repeated observations to compare friction in one setup.

Give your own answer by writing, drawing, pointing, speaking or dictating. Keep the first attempt visible.

1 • Make a first decision

We change both the block and the surface. Can stopping distance tell us which surface caused the difference?

2 • Our shared task

Invented teaching data from the same sliding-block setup. Compare both trials before making a claim.

Surface	Trial 1 / cm	Trial 2 / cm
A	46	48
B	24	26

- Which surface stopped the block sooner in both trials?
- What must have stayed the same for this to be a useful comparison?

My decision and the evidence for it:

One change after discussion:

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Independent evidence | GS_W3B

If the adult has prepared the apparatus, compare two surfaces twice and record your actual distances. Otherwise analyse the supplied table. State your route and write a conclusion with a limit.

My route: ☐ actual comparison I observed/directed/carried out ☐ supplied-data analysis ☐ diagram/model explanation

Actual measurements only	Trial 1/cm	Trial 2/cm	Trial 3/cm
Surface A: _____	_____	_____	_____
Surface B: _____	_____	_____	_____

Use the number of repeats agreed for this lesson. Leave this table blank if using supplied data.

My explanation, drawing or recorded evidence:

Optional support: Compare 46 with 24, then 48 with 26. Circle the shorter distance in each pair.

Exit: Why should we keep a surprising result?

What I want to revisit: _____ Agreed next action: _____