Read an invented friction comparison

Which variables need controlling before a surface comparison is useful?

My model conditions

List the conditions the comparison assumes are unchanged.

The fictional table

Copy each entry and label both the invented status and N unit.

My calculation

Calculate the two means and their difference, or check the supplied working.

What remains unchecked

Name one real measurement or control the table cannot establish.

Keep it, change it or leave it here. Sharing is optional.

Explain a drawn shadow

How can a ray diagram show what a shadow model assumes?

My geometry

Label source, block, screen and the two source distances.

My edge rays

Show each line skimming one block edge and meeting the screen.

My calculated shadow

Record the upper and lower screen coordinates and shadow height.

Limits of my model

Name one assumption and how changing it could change the drawing’s prediction.

Keep it, change it or leave it here. Sharing is optional.

An energy transfer explanation

Which transfers belong in a clear model of an invented machine?

My boundary and interval

Label the battery, wheel, device and room included in this invented account.

My decrease and destinations

Record the battery decrease and each stated destination, all in J.

My balance

Check the 100 J transfer total and the 140 J complete before/after total.

My explanation and limit

Distinguish the sound transfer from its final thermal destination. What has not been measured?

Keep it, change it or leave it here. Sharing is optional.