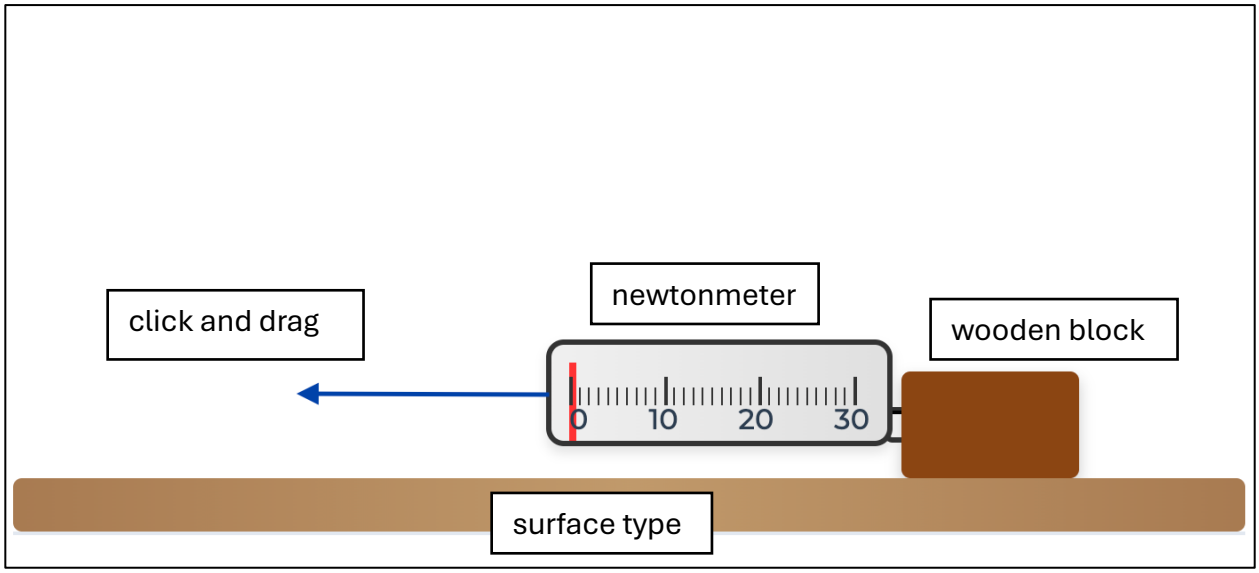
Investigating Friction

Aim: You are investigating how different surfaces affect the force of friction



Method:

1. Select a surface type from the control panel
2. Click and drag the newtonmeter to pull the block
3. Notice how the force spikes initially (static friction) then drops (kinetic friction)
4. The kinetic friction force will be displayed in the control panel
5. Record your observations in the data table
6. Repeat three times for each surface and take an average

Prediction:

Which surface do you think will provide the most friction and why?

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Results:

Surface type	Force of Friction (N)			Average Force (N)
	Trial 1	Trial 2	Trial 3	

Analysis:

Plot a bar graph to show your results. Plot the **Surface Type** on the horizontal axis and the **Average Force** on the vertical axis.

Which surface had the most friction?

How does this compare with your prediction?

Extension:

How would changing the mass of the block affect the force of friction?