

Net Force 1

Force Measurement Activity

Name: _____

For each task, choose a measuring device, and record your measurement

TASK	WHICH DEVICE DID YOU CHOOSE?	WHAT DID IT READ?	WHAT ARE THE UNITS?
Measure how much force it takes to hold up a bookbag.	<input type="checkbox"/> 5 Newton scale <input type="checkbox"/> 20 Newton scale <input type="checkbox"/> bathroom scale		
Measure how much force it takes to hold up the wood block (at rest)	<input type="checkbox"/> 5 Newton scale <input type="checkbox"/> 20 Newton scale <input type="checkbox"/> bathroom scale		
Measure how much force it takes to pull the wood block slowly upward.	<input type="checkbox"/> 5 Newton scale <input type="checkbox"/> 20 Newton scale <input type="checkbox"/> bathroom scale		
Measure how much force it takes to pull the wood block slowly across the table.	<input type="checkbox"/> 5 Newton scale <input type="checkbox"/> 20 Newton scale <input type="checkbox"/> bathroom scale		
Measure how much force it takes to just start a chair moving.	<input type="checkbox"/> 5 Newton scale <input type="checkbox"/> 20 Newton scale <input type="checkbox"/> bathroom scale		
Measure how much force it takes to just start a table moving.	<input type="checkbox"/> 5 Newton scale <input type="checkbox"/> 20 Newton scale <input type="checkbox"/> bathroom scale		

Trickier Tasks

Tricky Task 1	How much force does it take to hold up a table?
How did you do it?	
What is the answer and units?	

Tricky Task 2	What happens when you stand on two scales at the same time?
Shift your weight back and forth slowly - What do you observe about the readings?	

Tricky Task 3	While standing on one scale, can you make it read more than your weight?
How did you do it?	

Tricky Task 4	While standing on one scale, can you make it read less than your weight?
How did you do it?	