

Name:			
Date:			
Mark:	/20		%

Friction and Weight

Aim To investigate the effect of increased weight on static friction

Materials Newton meter spring balance, wooden block, string, Slotted weights

Procedure (5 marks)

Results (5 marks)

Weight of block plus added masses (g)	Force of Static Friction in Newtons (N)			
	<i>Trial 1</i>	<i>Trial 2</i>	<i>Trial 3</i>	AVERAGE

Graph (5marks)

- *Plot friction Force (in Newtons) on the vertical axis against weight (in grams) on the horizontal axis. Make sure that the points plotted are clear.*
- *Using a ruler, draw a straight line of best fit.*

Discussion Questions

1. What effect did adding weight to the block have on the frictional force? (2 marks)
2. Why does weight effect friction? (2 marks)
3. What is another factor which affects friction? (1 marks)