

Name:	Form:	
	Based on pages 6 and 7 of Friction	

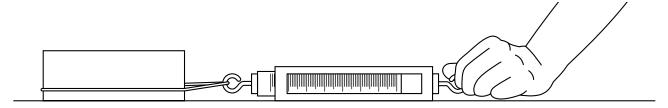
Does load and area affect friction?

Try this...

1. Read this:

The load on a surface is the force pushing down on it. You can increase the load on a block by putting more blocks on top of it.

2. Set up a block and forcemeter as the diagram shows.



- **3.** Pull gently on the forcemeter until the block just starts to move. Look at the force measured by the forcemeter and record it here.
- **4.** How does the force change if you use two, three or more blocks stacked on top of each other? Design a test to answer this question and record your results on a separate piece of paper.
- **5.** Turn a rectangular block so that its largest surface is touching the table.
- **6.** Pull gently on the forcemeter until the block just starts to move. Look at the force measured by the forcemeter and record it here.
- 7. Turn the rectangular block on its side so that its smallest surface is touching the table.
- **8.** Pull gently on the forcemeter until the block just starts to move. Look at the force measured by the forcemeter and record it here.

Looking at the results.

9. ⊦	How does friction change as you increase the load on a block?
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10.	How do the forces you measured in steps 6 and 8 compare?