



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?

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