



Name: Form:

Based on pages 14 and 15 of *Friction*

Looking at lubricants

Try this...

1. Make a ramp. Pour equal amounts of oil and syrup down the ramp at the same time.
2. Write down how the oil and syrup flowed down the ramp.

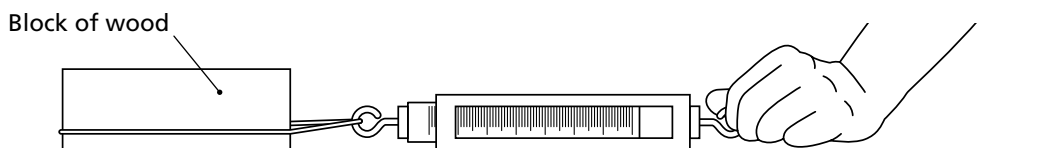
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3. Use the results from step 1 to predict which liquid would be a better lubricant.

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4. Take three pieces of wood. Do not pour anything on the first piece of wood, pour oil on the second and pour syrup on the third.

5. Set up a block and forcemeter on the first piece of wood as the diagram shows.



6. Gently pull the block and record the force needed to just start it moving. Record the force here.

7. Pull the block steadily across the board and record the force that is needed to keep the block moving. Record the force here.

8. Repeat steps 6 and 7 on each of the other two pieces of wood cleaning and drying the board between times. Record your results here.

Wood with oil: Step 6 force. Step 7 force.

Wood with syrup: Step 6 force. Step 7 force.

Looking at the results.

9. What do the results show?

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