­­­­­­­­**Purpose:** To compare friction on different surfaces.

# Friction

**Vocabulary:** names of the different materials being used

**Material:**

* wooden board (10 cm x 50 cm)
* ruler
* block (e.g. eraser)
* pen
* strips of different materials (e.g. tissue paper, tracing paper, leather, sand paper, plastic)

**Procedure:**

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* Place the block on one end of the board.
* Guess how high the end of the board with the block can be raised before the block moves - write down your guessin the table below.
* Raise the end of the board and measure the height. Write down your measurement.
* Choose a strip of material and place it on the board with the block on top of it.
* Guess how high the board can be raised before the block moves - write down your guess in the table.
* Raise the board and measure the height. Write down your measurement.
* Pick a new material and repeat the procedure.

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| --- | --- | --- |
| **Material** | **I am guessing (cm)** | **I am measuring (cm)** |
| wood |  |  |
|  |  |  |
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* Which material had the least friction? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Which material had the highest friction? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_