## My Name:



## Slippery Surfaces Investigation

## Instructions:

1. Put the box flat on the desk
2. Put the object you are testing with against one end inside the box
3. Hold a ruler next to this end of the box
4. Lift this end up until the object slides - STOP and measure the height
5. Write the height in the table below

6. Repeat the investigation with different materials in the box

## Results

| Material Tested | Height when the test object slides (cm) |
| :--- | :--- |
| Cardboard box lid |  |
| Paper |  |
| Card |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

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## Analysing the results

Draw a bar chart to show the materials and the height that object slides at


## Conclusions - what did you find out?

Look at your chart and look closely at the materials you tested.

For which material did the box have to be tilted the most?
$\qquad$

For which material did the box have to be tilted the least?

What differences can you see when you look closely at these materials?
$\qquad$
$\qquad$
$\qquad$
$\qquad$

Explain why the box could be tilted more more with one material than the other and use the word 'friction' in your answer:
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$

