Material Matters

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Question

Which non-bouncing material will bounce the highest.
Aim

To see which non-bouncy material bounces the highest.
What we are going to change

The Substance
What we are going to keep the same

The height that we drop it from and the way we video.
Observe and Measure

How high it bounces
Hypothesise

We think the cork will bounce the highest
Method

1. Sit on a chair and hold someone’s hand out and drop item one from 123 centimetres high.

2. Record which item bounces the highest.

3. Use a ruler to measure how high they bounced
Videos

Cork
Videos

Plastic Container
## Results

<table>
<thead>
<tr>
<th>How high the item bounced</th>
<th>Rock</th>
<th>Cork</th>
<th>M.A.B</th>
<th>Container</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>5cm</td>
<td>40cm</td>
<td>1cm</td>
<td>5cm</td>
</tr>
</tbody>
</table>

| Overall ranking           | 2nd   | **1st** | 3rd   | 2nd       |
1. The cork bounced the highest

2. The M.A.B bounced the lowest.

3. The cork bounced 39 centimetres higher than the M.A.B.
Conclusion

Our Hypothesis was the cork would bounce the highest.

We were correct; we guessed this because it has rubber in it.

If we were to do this experiment again we would probably, been more sensible what items we dropped.