

Answers. This is an example of what answers could look like but answers will vary depending on experiments.

1) Make your predictions. Which surface do you think the coin will travel the furthest and least on, and why? Rewrite these sentences in your books and fill in the missing gaps with your predictions.

I predict that the coin will travel the furthest on **the topic book/the bath** because it is **smooth/flat**.

I predict that the coin will travel the least on **the pavement/towel** because it is **rough/bumpy**.

2) Copy this table into your book. Use this table to record the results from your experiment.

Surface	Distance travelled (approx.)
Topic book	Whole length of book – far
Towel	Not far at all/didn't move
Pavement	5/10cm/not very far
Bath	Whole length of the bath – far

3) Rewrite these sentences and fill in the gaps with the findings of your experiment.

Conclusion

The coin moved the least distance on **the towel** so the surface with the most friction is **the towel**. The surface of the **towel** is **rough**.

The coin moved the furthest distance on **the bath** so the surface with the least friction is **the bath**. The surface of the **bath** is **smooth**.

Word bank: friction,
smooth, rough, slow, fast,
distance, furthest,
shortest