

Measurement

Here are some examples of activities, games or puzzles which can be used to support mathematics learning.

These examples are taken from the Drawing packs. There are three packs in this collection. The mathematical demand increases as you work through the packs. The complete packs can be downloaded at <https://www.stem.org.uk/rxzfc>

Answers to cards can be found at <https://www.stem.org.uk/rxxo5>

Smile Worksheet 2391

Matching Weights

You will need: glue, scissors

1. Cut out the weights at the bottom of this worksheet and match them to the objects.
2. Show each weight on the scales.

Remember 1kg = 1000g



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You will need scales

How Heavy?

Collect 7 small objects.



- 1) Guess which is the heaviest.
- 2) Guess which is the lightest.
- 3) Hold each object. Make a list of them in order of weight – heaviest first.

Heaviest
lightest

- 4) Now check by weighing.
Make a new list – heaviest first – and give the weights.

object	weight



Smile 0896

How thick?

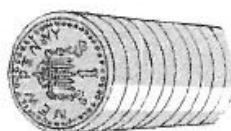
How thick is a penny?

In fact it's very thin and so it's very difficult to measure.

Make a pile of ten 1p coins:

How tall is the pile?

How thick is one 1p coin?

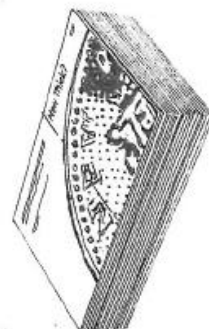


How thick is this card?

You will probably need 100 cards.

How thick is a pile of 100 cards?

How thick is one card?



How thick is your graph paper?

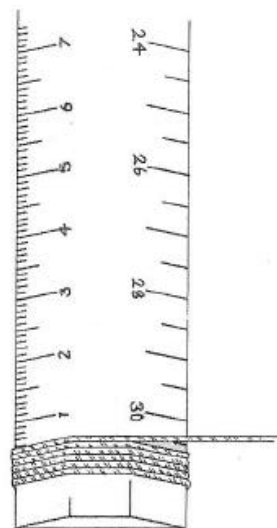
You will need at least 100 sheets. (A packet of 500 sheets would be easier).

How thick is your writing paper?

There are probably 48 pages in your exercise book — double that is almost 100!

How thick is thread?

Wind some thread around a ruler — keep the thread straight and no gaps.



Find five more thin objects. *How thick are they?*
Do different papers have different thicknesses?

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Less Marks Are Best !



To measure all of the distances 1cm to 10cm there are 7 marks on a strip.

For 1 cm we use AB

2 cm we use BC

3 cm

Copy and complete for this rule.

Can you find a way of marking the strip so that all the measurements can be made with fewer marks? How few?



What about measuring to half a centimetre

