

Engineering

Measuring recording chart

Purpose

This sheet is designed to be used in conjunction with resource: [Engineering: Using a measuring tape](#).

It supports the development of learners' estimation and measurement skills.

Instructions

Print a sheet for each learner. As a whole class agree what objects will be useful for measuring. It is a good idea to include objects that range in length from only a few millimetres to several thousand millimetres. Ensuring there are at least six objects will enable the learners to measure without having to wait for an extended period of time.

Before measuring the objects, ask the learners to first estimate the length, and record their estimation on the sheet. Once this is done, learners can measure the object and record the result. Gradually, learners' estimations should become increasingly accurate.

Note: Asking learners to estimate the length of objects is an effective formative assessment practice.

Finally, discuss all the results as a whole-class activity. As the tutor, you may be required to measure the items in order to provide an accurate measure. If so, model this so the learners can see exactly how you do it.

Extension: The difference between the learners' estimation and actual measurement can be calculated as a percentage and an average calculated. Over time these averages can be graphed to demonstrate improvements.

Measuring Recording Chart

Object measured	My estimate in millimetres	My measurement in millimetres	Difference