

Equipment to observe, measure and record data with reasonable precision...

use equipment to observe, measure and record data with reasonable precision, using digital tools as appropriate

Learning intention

- use equipment to observe, measure and record data with reasonable precision, using digital tools as appropriate

Teach and model

- exploring which equipment gives the most reasonable precision for the measurements of data required in the investigation
- exploring the precision of measurements of different equipment such as a cup compared with a measuring jug and discussing why precision is important in measurement
- recording data using standard units, such as grams, second and metre, and developing the use of standard prefixes for metric units such as kilo- and milli-

Check understanding

- Explain the main idea in equipment to observe, measure and record data with reasonable precision... using an example.
- Show the idea in a second way: with words, a model, a diagram or symbols.
- Apply the idea to a short unfamiliar situation and justify the result.

Teaching cautions

- Ask the student to explain their choice, not only state an answer.
- Check that key vocabulary is understood in a new example.
- Mix representations so the skill is transferred rather than copied.

Quick lesson sequence

- Connect to prior knowledge and introduce the key vocabulary.
- Model one clear example, then solve a second example together.
- Finish with an independent check and a short student explanation.