

**QUICK GUIDE:**

## Micrometer Experiment

1. Drag the ratchet screw (right hand end) sideways to open or close the micrometer (the anvil part) in large steps (note that real equipment doesn't include this).
  2. Click on the rotating scale and drag up or down to open or close the micrometer in small steps.
  3. Open the micrometer and drag a sample into the anvil gap. The sample will snap into place.
  4. Close the micrometer around the sample. Make sure to follow use of the ratchet screw with the rotating scale to close the micrometer.
  5. Read width from scale (see below for how to do this).
  6. Type width into the appropriate text box and click 'Check' to see if you were right (green = correct, red = incorrect).
  7. Drag a sample out of the jaws (or press 'Reset') to return it to its original place and select a new sample.
- You can also click 'New' for a fresh set of samples with different widths.
- To read the micrometer scale (see full instructions for more details):
- Find the largest valued tick mark on the main scale that is revealed from behind the rotating thumbscrew. This gives a whole number of millimetres for sample width.
  - Locate the tick mark on the rotating scale that is most closely aligned with the main scale axis. This gives the number of tenths of a millimetre in the sample width.
  - Add the values from the above steps to find the overall sample width.

