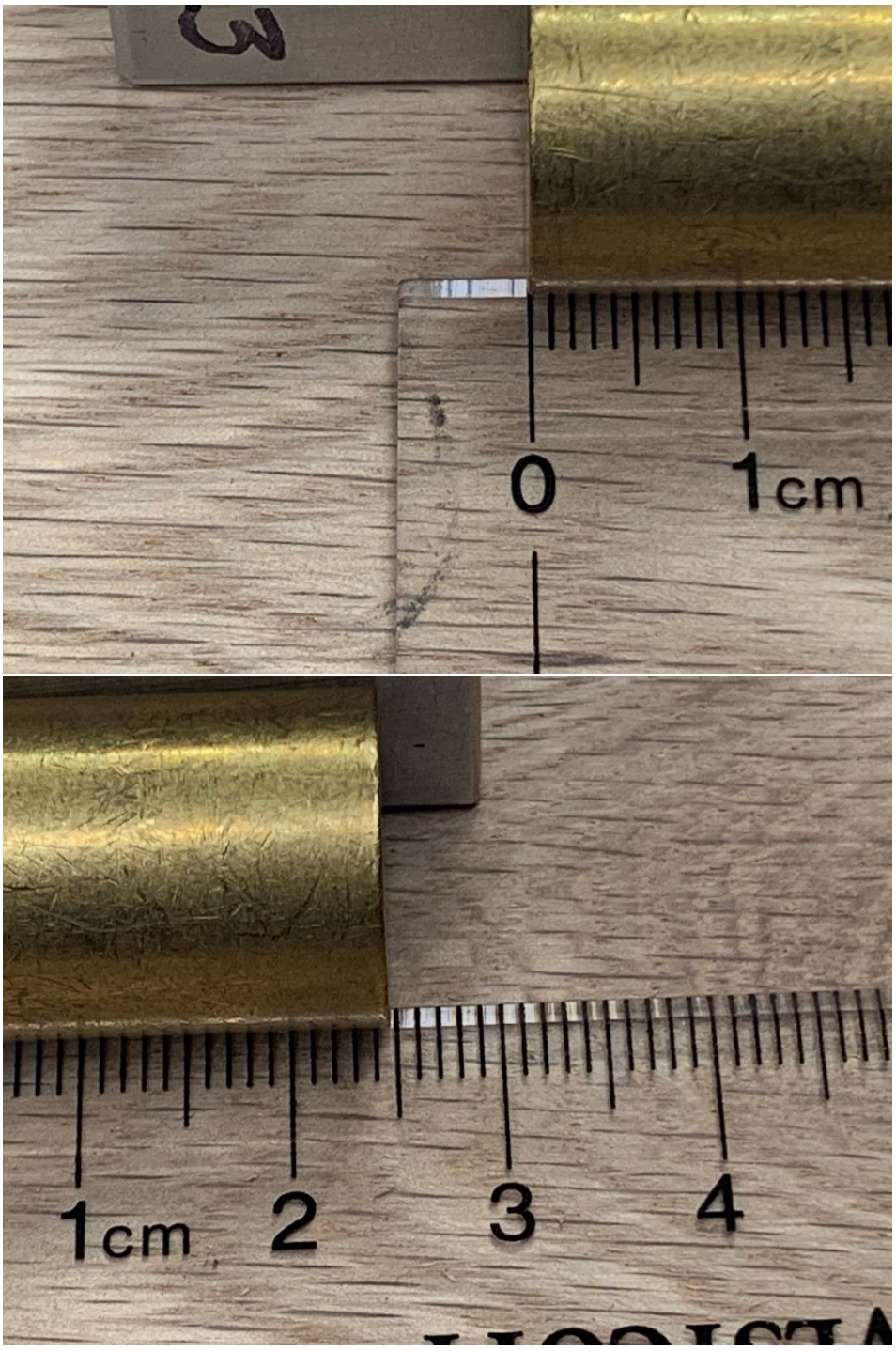
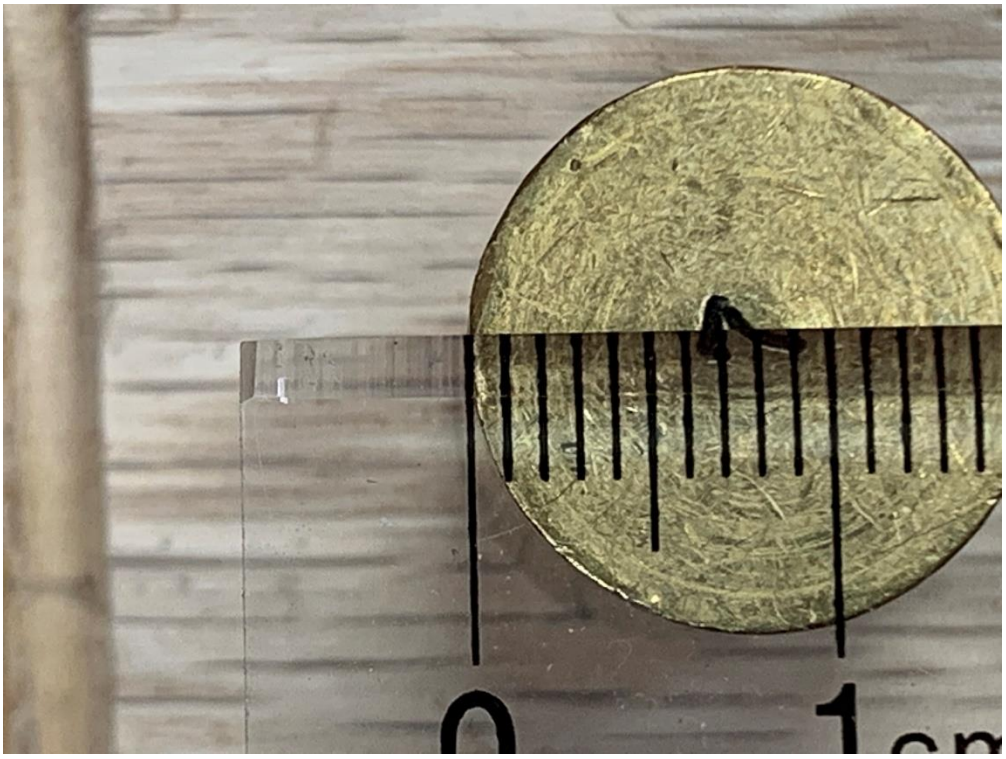
Sample Data # 2

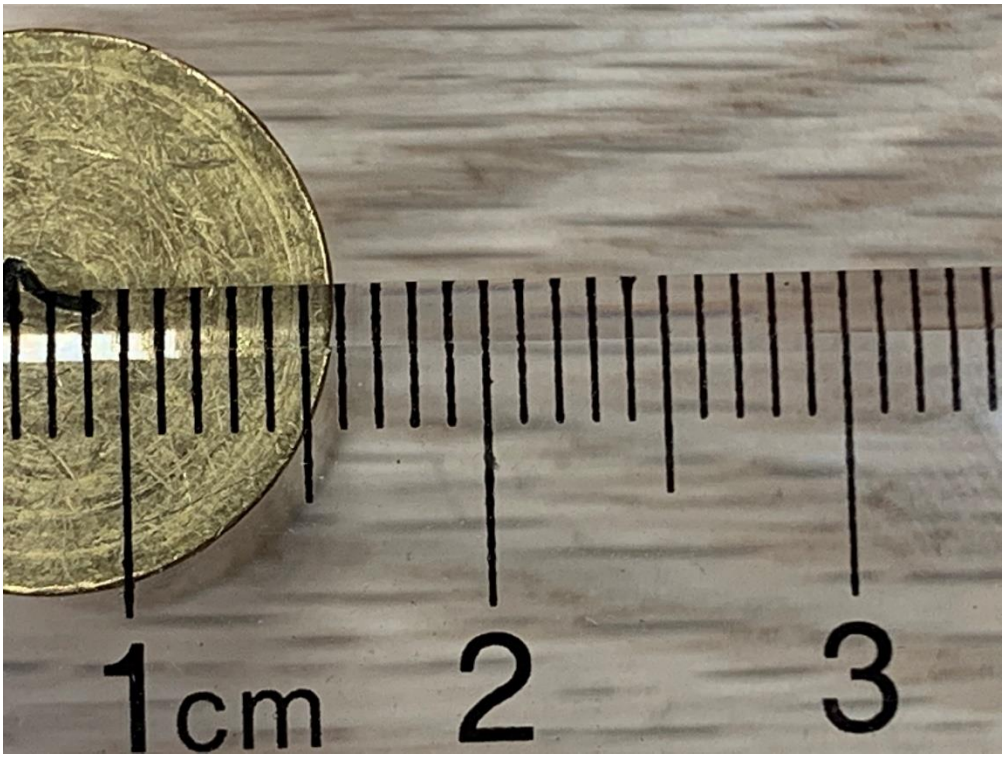
Measurements, Uncertainties, and Error Propagation

The following two photos depict the length measurement of the small cylindrical sample; the left and right ends are shown, respectively.



The following two photos depict the diameter measurement of the base of the cylindrical sample (left and right side).

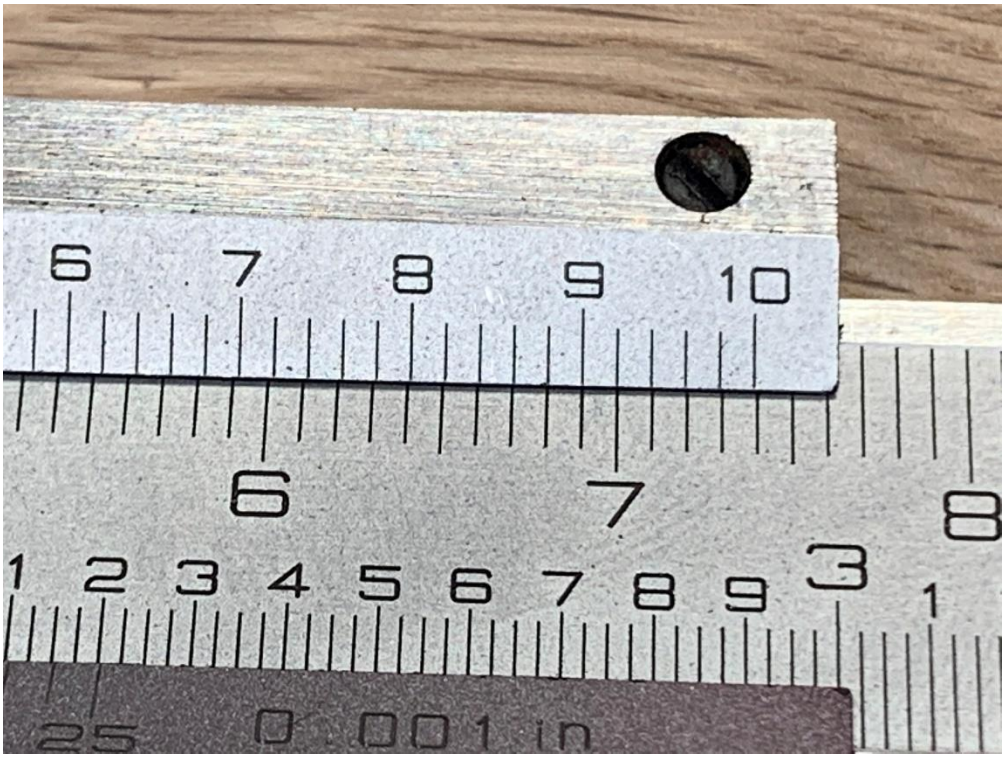




The following three photos depict the length measurement of the sample using a Vernier caliper.

With the sample still in the caliper, this is a close-up view of the Vernier scale for easier reading.

With the sample still in the caliper, this is an even larger close-up view of the Vernier scale for easier reading.



The following two photos depict the diameter measurement of the sample using a micrometer.

With the sample still in the micrometer, this is a close-up view of the scale for easier reading.

While the Vernier caliper's zero reading was truly zero (therefore no photo included), the micrometer was slightly off. This photo depicts the micrometer's zero reading.

This photo depicts the mass measurement of the sample using a digital scale.