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Lab Notes

Measurement and Uncertainty

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Notice of ADA Accomodation

I have an ADA accommodation to type out my pre-lab report when my disability flares up. This document is a utilization of that accommodation.

1 Lecture Notes

1.1 SI Units and Conversion

SI units are used in the sciences to convey information better.

To convert m to cm:
$$\frac{1.70m}{\frac{1m}{100cm}} = 1.70m \times \frac{100cm}{1m} = 170cm$$

1.2 Significant Figures

Significant Figures are used to convey error. 4539 m has 4 sigfigs.

1.2.1 logarithms & exponents

 $\log_{10} 339 = 2.530$

number of sigfigs in the mantissa is the same as the sigfigs in the input.

1.3 Procedure

Measure in the center of the meniscus. The graduated cylinder is calibrated to the meniscus.