

U1 – Ch 1-2 – Accuracy vs Precision/Significant Figures/Lab Measurements

Describing Measurements & Data:

- QUALITATIVE –
 - Ex:
- QUANTITATIVE –
 - Ex:

Accuracy vs Precision:

- ACCURACY –
 - Accepted boiling point (BP) of water = _____
- PRECISION –

In Summary: Results of measurements _____ be more precise than the _____ precise measurement.

- Aim for accuracy _____ precision!

SIGNIFICANT FIGURES:

- DEFINITION –
 - Precision of measurement is _____ on instruments that reads _____ significant figures (_____).
 - _____ = More _____ measurement.

SIGNIFICANT FIGURES RULES:

- #1)
 - Ex: _____ Ex: _____

○ #2)

○ Ex-A:

Ex-B:

○ #3)

○ Ex:

Ex:

○ #4)

○ Ex:

Ex:

○ #5)

○ Ex:

Ex:

○ #6)

○ Ex:

Reading and Recording GRADUATED Measurements:

○ Some lab instruments are _____ (marked with _____ and _____).

○ Record all _____ values indicated by _____, **PLUS** an _____ (uncertain) **LAST** digit (_____)