Activity 6.4a – Precision Measuring Tools

Purpose

This lab will introduce you to devices we use when we perform precision measurement. These are the tools common in the design and manufacture of almost all products available today.

Equipment

Precision Measuring Tools: Scales, Micrometers, Calipers, Triple Beam Balance, Thread gauges, etc.
Convert Program
Common everyday items for students to measure

Procedure

1. Students will be given an object.
2. Students will create a detailed sketch of the object.
3. Students will annotate the sketch with all appropriate dimensions in both the English customary system and SI accurate to three decimal places.
4. Students will record the weight of the object.

Conclusion

1. Why do measuring instruments come in different sizes and shapes?

2. Which measuring instrument was the most valuable to you in your activity and what was the reason you selected that particular instrument?

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