



Measurement Tools

Two Day Class

History of Measurement

- **Early Measurement Tools and Standards**
- **English and Metric Systems of Measurement**
- **Understanding Conversions between English and Metric Units**

Basic Shop Math

- **Fractions and Decimals**
- **Decimal and Fraction Conversion**
- **Measurement Terms**
- **Accuracy, Precision, Estimation Linearity, and Span**
- **Common Units of Measurement**
- **Measurements to Thousandths and Ten Thousandths of an Inch**

Precision Measurement Tools

- **Understanding the Common Steel Rule**
- **Using Vernier Calipers for Inside and Outside Measurement to the Nearest .001"**
- **Making High Precision Measurements with Micrometers and Telescoping Gages to the Nearest .0001"**
- **Dial Indicators for Relative Distance Measurements**
- **Tool Calibration to a Standard**

Care of Measurement Tools

Other Measurement Tools

- **Use of Gage Blocks, Dividers, Telescoping Gages, and Comparators**
- **Angle Measurements using a Protractor**
- **Squaring Work Using the 3-4-5 Triangle Method**