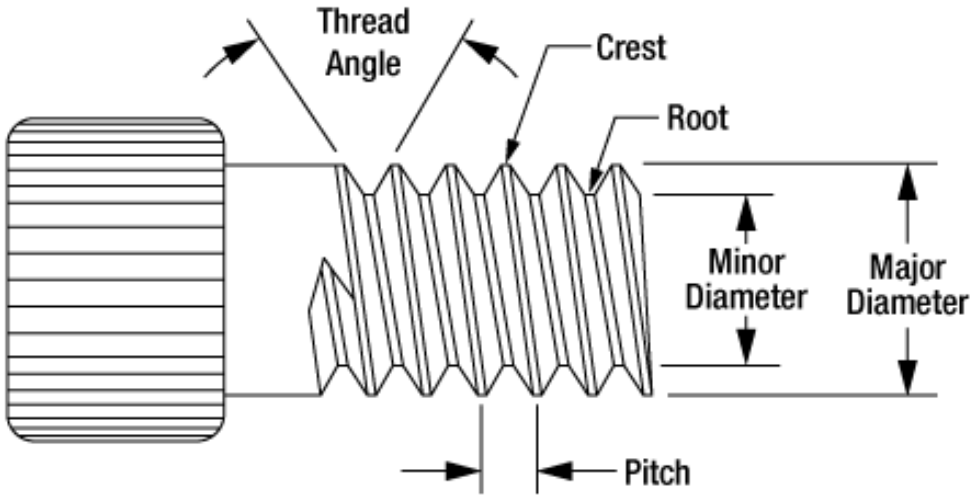




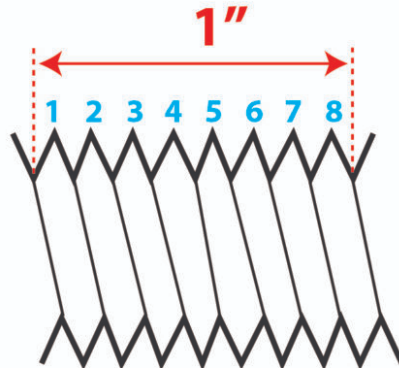
# Metal Shop Open Lab

## Taps and Dies



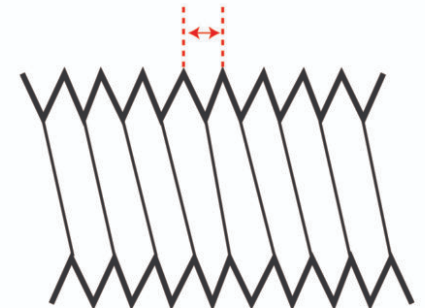
## Dimension Specifications

### US / SAE VS Metric



US/SAE thread pitch = number of threads per inch

Major Diameter - TPI  
E.g. 1/4 - 20



Metric thread pitch = millimeters between threads

Major Diameter x Pitch  
E.g. M10x1.5

**Taper** - Longest taper before full threads, best for starting new holes



TAPER TAP

**Plug** - Shorter taper, extends threads deeper into a blind hole



PLUG TAP

**Bottoming** - Shortest taper, extends threads to the bottom of a blind hole



BOTTOMING TAP