CAED Support Shops

**Drill Press**

**•Review dress code**

-Remind students that long hair must be tied back, loose clothing and/or jewelry must be removed

**•Intro**

-Show power switch

-Demonstrate speed control (this should only be changed while the machine is running)

-Demonstrate how to adjust table height

-Demonstrate how to use the chuck key and the importance of removing it before starting machine

**•Drilling a Hole**

-Explain the use of a sacrificial board

-Install drill bit

-Demonstrate setting stop nuts so drill only goes into sacrificial board

-Describe why we keep the material clamped or against the fence

-Demonstrate clamping a piece to the table

-Demonstrate holding a small piece in a vise or wood clamp

-Explain that softer materials with small holes the piece may be hand held

-Explain that harder materials and/or large holes must be clamped to table

**•Drill Bits**

-Show and talk about uses/applications of the following drill bits:

-Twist drills: small and large examples

-Show differences in brad point and “regular’ twist drills

-Paddle/spade bits

-Countersink

-Hole Saw

**•Demonstrate Practice Piece**

-Drill through with twist drill

-Set depth stop and drill part way with Forstner bit

-Drill through with Forstner bit

**•Field Questions before Students drill**

-Explain that the controls are different on various Drill Presses in the shop.

-If you are not sure about drill selection, speed, or how to safely hold/clamp project please ask.

**•Remind students to clean-up after themselves.**

Show them where the brooms, vacuum, etc. are located and what our expectations for clean-up are.

**REMEMBER- We are here to help. If you have any questions ask!**