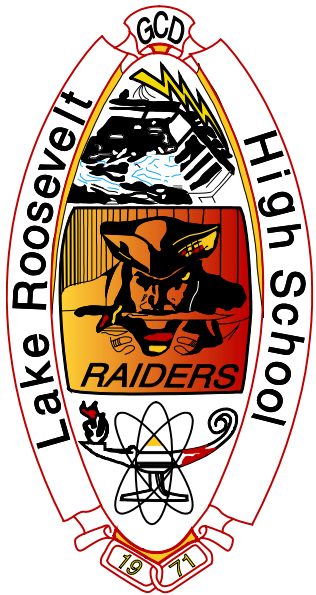
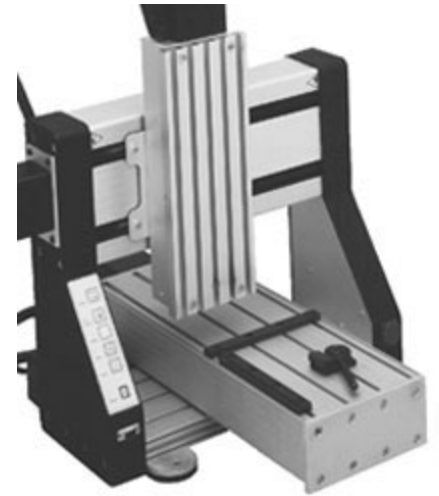
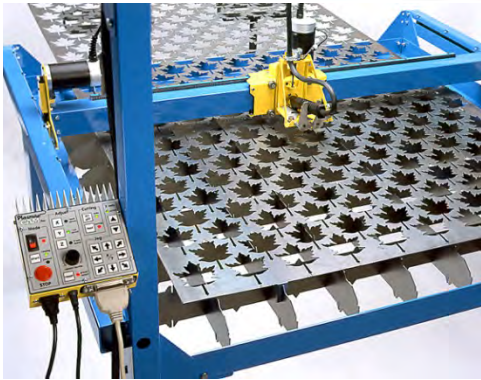


K-12 STEAM Education Technology Tools



*Lake Roosevelt Jr./Sr. High School
Grand Coulee Dam School District*

Technology Tools



Universal Laser Cutter/Engraver
Roland GX24 Vinyl Cutter
Makerbot Replicator 5th Gen
Techno Isel Davinci CNC
PlasmaCam Metal Cutting Table
HP T520 Wide Carriage Printer

Software



RhinoCeros

Ai

ADOBE® ILLUSTRATOR® CS4



OpenRocket



**MAKERBOT
DESKTOP**



CorelDRAW®



Office 365

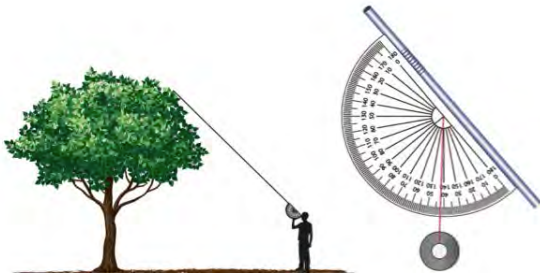


EngraveLab|v9



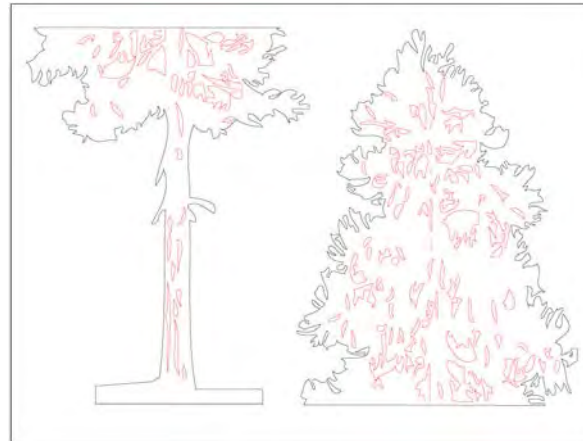
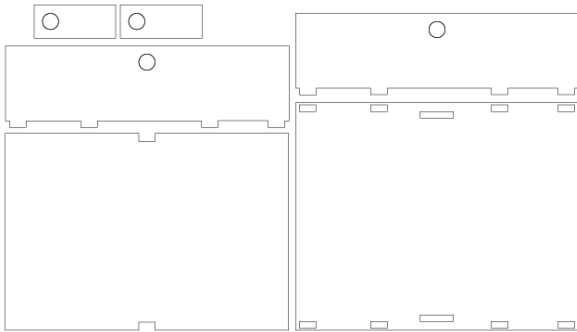
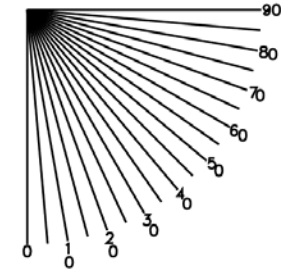
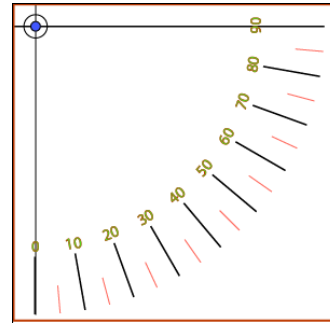
**AUTODESK®
INVENTOR®**





Height of a tree – Common methods use a straw and a protractor, we tried a laser engraved example.

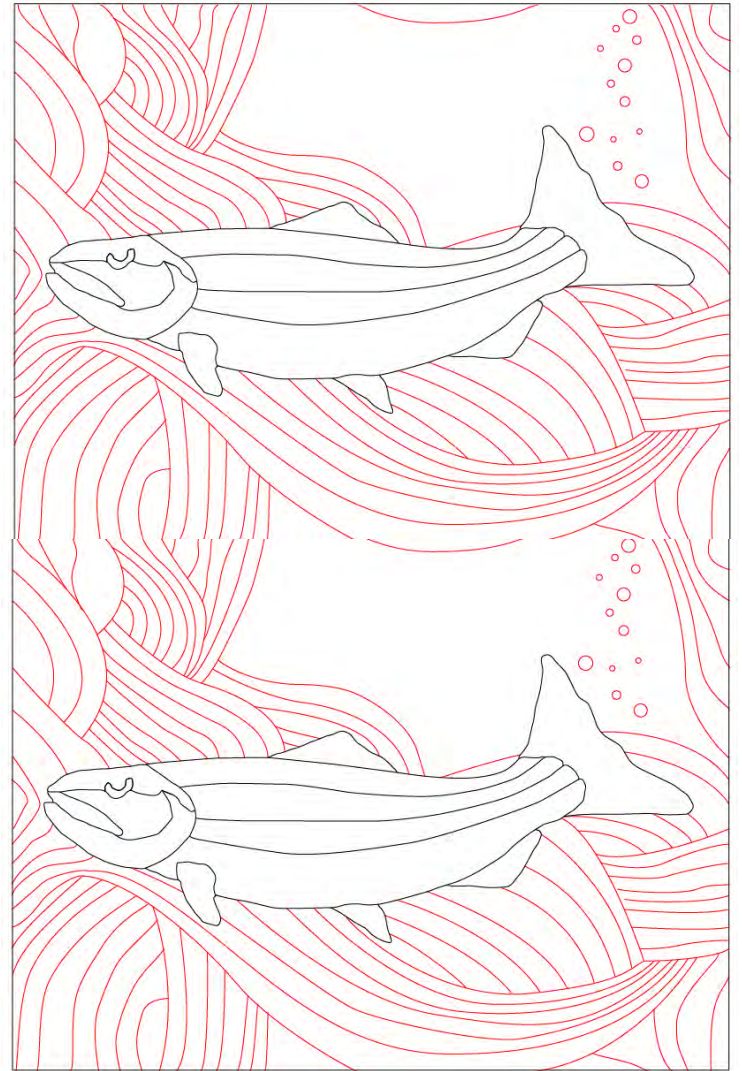
We started with this approach and used Illustrator to make a model to determine the angle.



The weather turned cold and we decided that not all students have a forest close by so what can be done in the classroom

Our clinometer was created by using a laser cut base for a cell phone using a free clinometer app and a laser cut tree. A Dollar Store laser pointer was used to find the top of the tree, either a model or a real tree.

The tree was cut in two parts as the laser cutter has a 24" x 18" maximum dimension.



An example of a student's produced laser cut and engraved art piece that was donated to the Colville Tribes new fish hatchery.