How to Use this Resource

- This resource is meant to be used as an initial hands-on activity to introduce students to basic hand tool safety. It was designed originally for use in a dedicated tech area classroom, however, can easily be adapted to fit a variety of settings. Customize the stations to fit the tools and materials you have available.
- Students should be following all general safety rules (e.g., wearing safety glasses, hair tied back) throughout the activity.
- Prepare all station tools and materials before starting the activity. Using bins or containers to store materials will help keep stations organized.
- Ideally, this activity should take four one-hour classes to complete, with the first class dedicated to orienting students to the tools, safety practices and station procedures. Allow for approximately 10-15 minutes per station.
- Always consult with your board's policies before using any potentially high-risk activity with students.
- Students move through the stations in small groups, with 2-4 students per group.

Station # : Power Hand Drill

1. **Clamp** your wood to the table so that the spot where you are drilling **hangs off the edge of the table**.
2. Carefully drill holes into your wood. Remember the bigger the drill bit, the slower you must go.
3. Unplug the drill when you are done drilling, tidy up and return the drill bits to container.

You may change out the drill bits, but a friendly reminder to make sure the drill is **unplugged** when you are doing this!

Station # : Handsaw

1. Draw a straight line on your wood using the square provided.
2. Clamp your wood in either the table vise or to the table with a screw clamp. Make sure the part you are sawing is **over the edge of the table**.
3. Holding the saw on an angle, saw your wood apart on your line.

Reminder: Do not place your other hand on your wood when sawing!

Station # : File

1. Clamp your wood in a table vise at the end of the table. Make sure your wood is secure and the vise doesn't move.
2. Use two hands on the file to round the edges of your wood.

CAUTION: File surface can be sharp!

Station # : Palm Sander

1. Clamp your wood to the table using the clamps provided.
2. Turn the sander on when it is **not** touching anything. Make sure you are holding onto it with at least one hand.
3. Sand your wood **gently and lightly** in a circular motion.

Reminder: Do not press hard on the sander or use it to sand off sharp corners

Station # : Glue Gun & Easy Cutter

1. Measure out three 3 cm pieces of Jinxwood (1 cm x 1 cm x 1 m wood) using the tape measure.
2. Using the Easy Cutters, snip off the three pieces of wood on a **45 degree angle**.
3. Glue the three pieces together to form a triangle.
4. You can repeat these three steps again so that each group member makes their own triangle.

Caution: Blades are sharp! Glue gun and glue sticks will also be hot.

Station # : Screwdriver & Screw

1. Using the Phillips (+) or Robertson (■) screwdrivers, screw at least three pieces of cardboard to your wood. You can use as many screws as you'd like, but use at least four.
2. Unscrew the cardboard from your wood and return the screws and screwdrivers to their containers.

Reminder: "Righty tighty, lefty loosey"

Station # : Hammer & Nail

1. Clamp your wood to the table so the the part of the wood your are hammering into is hanging off the edge of the table.
2. Hammer a nail into the wood, but leave the head of the nail sticking out slightly.
3. Remove the nail from your wood using the pry part of the hammer. Return nails to the bin.

Repeat as many times as you'd like, but make sure everyone gets to try at least once!