



## **Woodworking Chris Field Curriculum Overview**

### **Grade 1**

- Develop a visual sense for different types of materials and tools used within the woodshop
- Practice different skills necessary to complete this name board projects:
  - Marking/pencil sharpening
  - How does a vice work?
  - Tracing Patterns
  - Using coping saws to cut straight lines/curves
  - Use file to smooth cuts
  - Use sandpaper to register final smoothness
  - Paint/finish boards
- Develop comfort in asking for help/problem solving with the provided information

### **Grade 2**

- Further acquire more knowledge and practice with new tools and techniques
- ½" pine, 10 gauge wire, acrylic paint, brace and bits, coping saws, rasps, and drill press are all introduced as new tools/materials
- While making our birds and fish, are students able to refine their smooth cutting and finishing techniques to make their projects as artistically refined as possible?
- Students consider Art Installation. Where will my project be on display? Does that change how I finish/prepare my project?

### **Grade 3**

- Students' box project has students look at various construction techniques/tools
- Students work from a plan requiring them to read directions, refer to models, and look and individual sections from the box
  - New Tools: Mitre boxes, hammer and nails, nail sets, drill/screwdriver, woodburner, Glowforge Laser cutter, brass hardware
  - New techniques:
    - using a square to mark straight line
    - Clamping work

- glue/screw/nail. Combinations of fastening
- Finishing our project: Stain? Paint? Woodburn?

#### **Grade 4**

- Design a project with different dimensions of wood. (1x4, 1x6, 1x8, plywood)
- Work from a project *Work Plan*
  - Cut lists
  - Quantity
  - Shop notes
- Project symmetry. Marking in pairs. Good preparation reduces tedious work to file and sand.
- Offer individual preference in artistic completion with paint, stain, laser, shingles.

#### **Grade 5**

- Legacy Sailboat Project! Featuring over 25 different shaping and assembly techniques.
- New tools/techniques:
  - Block plane; the majority of the boat hull is shaped using a block plane as students work towards reference lines from patterns
  - Drill press is used with mask jigs
  - Pop-rivet gun to attach brass to keel
  - Sail cutting/rigging. If you can tie your shoes, you've got a head start!
- Students have a timeline that forces us to work backwards from the end of the trimester. Each class is essential to complete several checklist items to have our boats ready for Redd's Pond!