



Woodworking

4th-5th Grade, Week of: June 6th, 2024

What We Did on...Monday:

Today, we introduced the kids to the basic graphic design program Corel to create their custom T-shirts! Commonly used woodworking tools like hammers and screwdrivers were also introduced to prepare for larger woodworking projects in the following days!

Scavenger Hunt

- To familiarize the kids with the various machines located around the lab, the kids embarked on a scavenger hunt with their table mates to identify machines like the miter saw and laser cutter.

3D Animal Puzzle

- Using laser cut pieces of wood, the kids assembled a 3D animal resembling a cat!

Corel Lesson: T-Shirt Designs

- Through the graphic design program, Corel, the kids were able to create their own custom designs and personalize the front of their camp T-shirts.

Tool Station Rotation

- Rotating through different stations, the kids were able to acquire hands-on experience as they learned about the purposes of different wood working tools like the hammer and drill.

Laser Cut Rulers

- With the ruler being an essential tool in woodworking, the kids created their very own wooden rulers using the laser cutter!



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What We Did on...Tuesday:

Today we taught the kids about the miter saw, different types of sandpaper grits, a CAD program called Fusion360, and we began digitally constructing their birdhouses.

Corel Rulers

- We finished up our mini ruler creations and then laser cut them for the campers to have their own!

Sawing Lesson

- We explained to the kids how to saw, and then explained the more efficient wood-cutting machine known as the miter saw and demonstrated it for them!

Giant Jenga

- We taught the kids about different sandpaper grits and then the kids sanded down their blocks for the Fab Lab's own personal Giant Jenga set!

CAD: Fusion360 Lesson

- Using CAD, we taught the kids about how to create and design our birdhouses that we will construct later in the week!

Mini Tables

- Campers used and worked on their sawing, sanding, woodburning, and hammering skills to create mini tables!



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What We Did on...Wednesday:

To prepare for constructing the birdhouses, the kids honed their skills in sanding and building as they engineered bridges and created picture frames. Learning about various types of wood and their qualities, we also engaged in several trivia games to test their knowledge of woodworking.

Bridge Building Challenge/Natural Disasters

- To examine the effects of natural disasters on wood, campers were challenged to construct bridges with blocks of pine.

Jeopardy

- To review the massive amounts of information learned in the last few days, the kids competed in a game of Jeopardy.

Sanding

- As the last step before constructing the birdhouses, the kids finished sanding down their wooden pieces to ensure a smooth finish!



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What We Did on...Thursday:

Today's main goal was walking the kids through constructing their birdhouses using the skills they learned throughout this week.

Birdhouse Construction

- Using hammers, screw drivers, and clamps, the campers constructed and customized their birdhouses with colorful paints and woodburning.

Designing Notepad Covers

- Going into corel, the campers designed the covers for their own notepads and we will laser cut them and hot glue them on all together!



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What We Did on...Friday:

Today we wrapped up the week by designing a sign for a new tree for the Fab Lab, wood burning their names on the sign, and using all the skills they learned throughout the week in a relay race!

Fab Lab Whiteboards

- The campers helped create a set of whiteboards for the Fab Lab to use in different camps and classes.

Birdhouses

- The campers finished customizing their birdhouses and are now able to take them home! They used all the skills they learned throughout this week to do so!

Mini Cars

- The campers used sanding machines to smooth out the edges of their wooden cars after they went through the vertical bandsaw. They then nailed the wheels to the cars and customized them! They also built a stand to display their motor works of art!

Wood Burning

- Using a soldering iron, the campers each wood burned their names on the sign for the tree, which we then planted in the yard of the Fab Lab next to the sign!