

Enhancing Creativity, STEAM, and Career Exploration Through a Mobile Woodworking Training Lab

by: *Dr. Creenna Bocksnick, AR 4-H Camping Coordinator*
University of Arkansas
cbocksnick@uada.edu

Program Goal:

To introduce youth to a wide range of woodworking skills, trades, entrepreneurship, hobbies, and other related fields through hands on experiences.

Target Audience:

- Youth—Ages 5-19
- Adults

Expenses/Funding:

- Equipment—Grant Funds
- Trailers—Programmatic Funds
- Consumables—Grant/Programmatic Funds

General Trailer Specs:

- 20'L x 8'W x 7.5'H
- 2—7,000lb axles
- 14ply tires
- 50amp power supply
- Outlets & Lights within
- Gap cover on back door & door extension

Reach:

Over 250 youth since 2021

Virtual Tours:

Trailer A:

<https://bit.ly/MWLVTB>



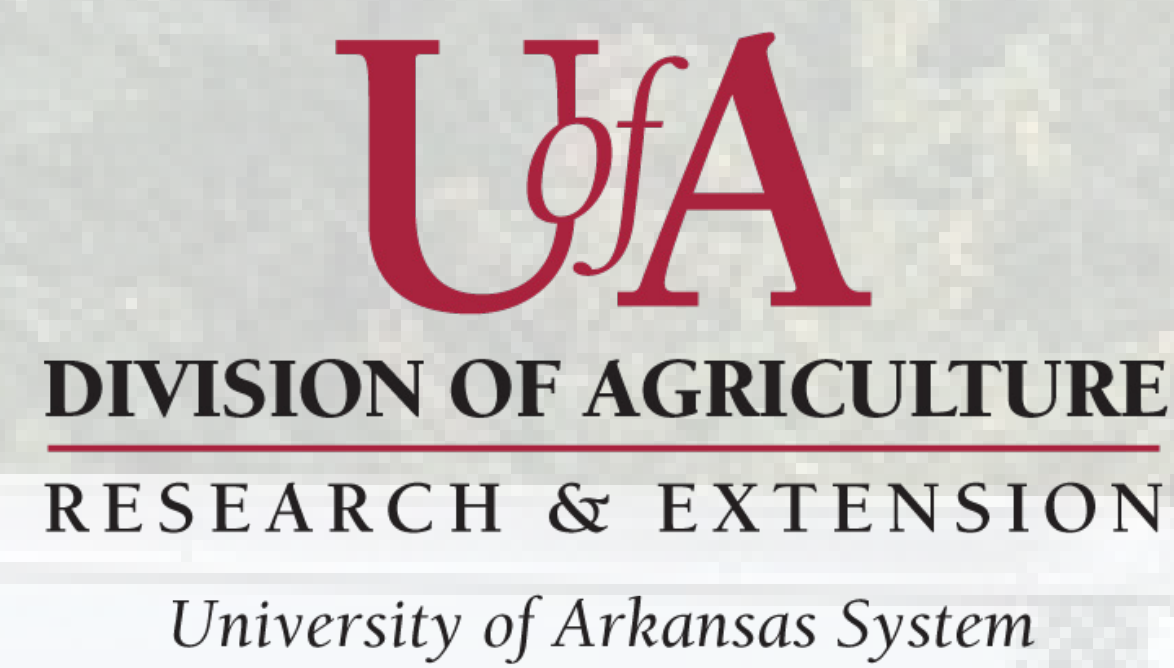
Trailer B:

<https://bit.ly/MWLVTB>



More Details:

<https://bit.ly/MWLInfo>



Equipment: *(not all included in virtual tour)*

- Lathes (x6)
- Scroll Saws (x6)
- Band Saws (x4)
- Drill Presses (x6)
- Planers (x2)
- Jointers (x2)
- Miter Saw
- Table Saw
- Drum Sanders (x2)
- Disc Sanders (x2)
- Grinder
- Routers (10)
- CNC (x2—with Laser attachment)
- Orbital Sanders (x10)
- Clamps (2 sizes, approx. 40 of each)
- Wood Carving (15 sets)

Equipment selected for variety of potential projects, safety, and usability across a range of ages and abilities. All equipment has safety locks built in or options to add padlocks. All large equipment is secured to mobile workbenches or mobile bases so that it can be used inside or outside the trailers, and so that equipment can be mixed and matched between trailers.

NOTE: Workbenches are adjustable heights to accommodate a wide range of heights as well as individuals using wheelchairs.

Modifications to Equipment:

- Reduce variety
- Increase number of hand tools

Projects Completed:

- Coasters
- Cutting Boards
- Bandsaw Boxes
- 3D Figurines
- Pens/Pencils
- Signs
- Spoons
- Lamps
- Rocking Chairs

Alternative Projects:

- Boxes
- Bowls
- Frames
- Many More

