



STEM Wars 2025 The 2X4 Challenge

Event Coordinator:

- Nick Lundgren
- nlundgren@swcsk12.org
- Please contact him with any questions.

Directions:

The 2x4 challenge is a woodworking competition where students can choose a woodworking project to design and construct that is made only from a 2x4. They can use any woodworking processes available to them to construct this project. This project will be built off site and brought to STEM WARS on the day of the competition to be judged.

The project will be judged on 3 categories.

- Creativity – A creative project usually involves an original idea or an original spin on someone else's idea. Usually making something work for a specific situation or person.
- Craftsmanship – Overall how well was the project put together. Joinery, cut quality, and sanding are major factors that are judged.
- Finish- How well the project is sanded and painted or stained.

Parameters

- The project must be made from **ONE** 2x4x8' piece of Pine dimensional lumber. (Actual size 1 ½" x 3 ½" x 96")
- If you use more than one 2x4x8, the project will be removed from judging.
- Screws, nails, glue and dowels are permitted for joining purposes.
- Handles, knobs, hinges or any other similar hardware are acceptable.
- You are also allowed to use any type of finish you want, (paint stain polyurethane etc.)