



STEM Wars 2026 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.

1. **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.
2. **Craftsmanship:** Overall, how well was the project put together? Joinery, cut quality, and sanding are major factors that are judged.
3. **Finish:** How well was the project sanded, painted or stained?

Parameters

- The project must be made from **ONE** 2x4x8' piece of pine dimensional lumber. (Actual size 1 1/2" x 3 1/2" 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.)