

OZAUKEE COUNTY 4-H PINEWOOD DERBY RACE



Sunday, February 12, 2023

Ozaukee County Fairgrounds Pavilion, Cedarburg

All Youth and Adults in and around Ozaukee County are invited and encouraged to participate in the Annual Ozaukee County 4-H Pinewood Derby Race. Cars entered must be created from the car kit sold for \$5 by the Ozaukee County 4-H Leaders Association. One division at a time will race. Please see check in and race times. Awards will be given for both Speed and Craft in the following youth divisions.

Sponsored & Supported by the
Ozaukee County 4-H Leaders
Association.
A team of Active 4-H Volunteers.

TIMES ARE SUBJECT TO CHANGE. WE WILL MAKE EVERY EFFORT TO STAY ON SCHEDULE.

Pre-K/ Kinder. Division	Early Elementary Division	Elementary Division	Middle School Division	High School Division	Adult Division
Kind. and Younger	Grades 1-2	Grades 3-5	Grades 6-8	Grades 9-12	Adults
12:00 Check In	12:20 Check In	12:40 Check In	1:00 Check In	1:20 Check In	1:40 Check In
12:30 Race Time	12:50 Race Time	1:10 Race Time	1:30 Race Time	1:50 Race Time	2:10 Race Time

Times are approximate. Actual schedule depends on number of entries. Each car must pass inspection by the official inspection committee before it will be allowed to compete.

Construction requirements for youth race:

- The car weight shall not exceed 5.0 ounces. The official race scale shall be considered final.
- The overall length of the car shall not exceed 7 inches.
- The overall width of the car shall not exceed 2 ¾ inches.
- The car must have 1 ¼" clearance between the wheels.
- The car must have 3/8" clearance underneath the body.
- The block may be shaped any way that is desired, but the wood provided in the kit must be used.
- The wheels supplied with the kit must be used. The wheels may not be cut, drilled, beveled, or rounded. You may remove the seam from the wheels. Wheel bearings, washers or bushings are prohibited.
- The axles supplied with the kit must be used. They may be polished or lubricated.
- The car must be freewheeling, with no starting devices and must not ride on any type of springs.
- No loose material of any kind, such as lead shot, may be used, but details such as the steering wheel, driver, decals, painting, and interior detail are permissible if these details do not exceed the maximum length, width, and weight specifications.

Construction requirements for adult race:

- The overall width of the car shall not exceed 2 ¾ inches.
- The car must have 1 ¼" clearance between the wheels.
- The car must have 3/8" clearance underneath the body.
- Other than the above rules necessary to fit cars on the track, the adult race is a no-rules race. Creativity, engineering, and physics principles should be applied, and communicated to youth in attendance.

In addition to the construction requirements, the following racing rules will be enforced:

- If, during a race, a car leaves the track without interfering with its opponent, it shall be considered to have ended its heat at that point.
- If a car leaves its lane, at his sole discretion, the track chairman may inspect the track and, if a track fault is found which probably caused the initial violation; the track chairman may order the race to be rerun after the track is repaired.
- If, during a race, no car reaches the finish line on the track, the car which went the farthest in its lane shall be declared as the heat winner.
- If, during a race, a car leaves its lane and, in so doing, interferes with another racer, then the car at fault shall be declared to have lost the race heat.
- Only one car may be registered by any person in the Pinewood Derby.
- Only dry lubricants such as graphite or powdered Teflon "white lube" will be allowed. Lubricants must be applied before weigh-in only and are not allowed in the Pavilion South.

Car Kits & Registration

Purchase a Car kit for \$5 and register for the Derby at the UW Extension Ozaukee County office.

- Please call Extension Office at 262-284-8288 to make a pick-up car kit appointment.
- Cash or check accepted - make checks payable to: *Ozaukee County 4-H Leaders Association* or bring exact change.
- Car kits include a block of wood, wheels, and nails. No other materials are provided.
- February 3rd is the last day car kits will be sold at the UW Extension Ozaukee County office.

Registrations forms must be filled out at the office when purchasing the car kit.

Build Day, 2/4/2023, held in the North Pavilion at the Fairgrounds is the last opportunity to purchase car kits.

Need help building your car?

BUILD DAY

Saturday, February 4, 10:00 am - Noon, Ozaukee County Fairgrounds Pavilion North, Cedarburg.

An adult with power saws will be available to cut rough car shapes. Some sandpaper will be available to do sanding. Sanding and painting will be done by the participant after build day.

What to bring: Pinewood Derby Kit or purchase one at Build Day for \$5. Build day is the last opportunity to purchase a car kit.

Want to make your car faster?

PHYSICS DAY

Saturday, February 11, 10:00 am - Noon, Ozaukee County Fairgrounds Pavilion South, Cedarburg.

Aerodynamics, friction, gravity, potential and kinetic energy...what are the secrets to building a fast Pinewood Derby Car? Take your car through stations and investigate ways to make your car go faster!

What to bring:

- Completed wood car body
- Wheels and axles (nails) in their original condition
- Weights (optional)

Participants will have the opportunity to race their car on the derby track while making improvements to it. There will be stations where youth can use trial and error to find the best placement for additional weight, reduce the friction on axles and wheels, and experiment with lubricants. Tools, drills, scales, etc. will be available to perfect your wheels, axles, and weight.

For more information: Contact Extension Ozaukee County at 262-284-8288.

The day of the race, please contact Sue Dowe at 262-689-0942 if you are unable to race.

**OZAUKEE COUNTY 4-H LEADERS ASSOCIATION
PINWOOD DERBY RACE**



R E G I S T R A T I O N F O R M

Name _____ Grade (or Indicate Adult Division) _____

Address _____ City/State/Zip _____

Phone _____ E-mail _____

Please check all that apply:

4-H Member/Leader - Name of club _____

Ozaukee County Resident

Other _____

Registration Information

To Register you must turn in this registration form to the Extension office when purchasing a car kit. **No registrations accepted on race day.**

Please note that a photographer/videographer may be taking videos and pictures of the participants at this event. UW-Madison Extension Ozaukee County will use these videos and pictures in a manner consistent with UW-Madison Division of Extension's mission. Your registration for this event indicates your consent for your image to be recorded and used in this manner.

An EEO/AA employer, University of Wisconsin-Madison Division of Extension provides equal opportunities in employment and programming, including Title VI, Title IX, the Americans with Disabilities Act (ADA) and Section 504 of the Rehabilitation Act requirements. Please make requests for reasonable accommodations to ensure equal access to educational programs as early as possible preceding the scheduled program, service, or activity by calling 262-284-8288.

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