

2024 LEWISTON HEARTLAND DAYS  
**PINEWOOD DERBY**

Saturday, June 22nd - 11:00 am

The Crossings Center

Anyone can race! Any age! GIRLS and BOYS!

**RACE CLASSES**

**AGE: 11 TO 17**

**AGE: 6 TO 10**

**AGE: 5 AND UNDER**



*Trophies awarded for each race class!*

*Top car from each age class will race to determine the Overall Heartland race champion!*

*Best of Show (best decorated) trophy awarded too!*

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Pickup your official racecar kit and registration form at the following locations:

**Rislow Service Center or Lewiston Hardware Hank**

Contact: Mark Simon – [lewistoncubscoutspack16@gmail.com](mailto:lewistoncubscoutspack16@gmail.com)

Trophies sponsored by **Rislow Service Center**



Event Hosted by Lewiston Cub Scout Pack 16



# 2024 LEWISTON HEARTLAND DAYS - PINEWOOD DERBY

Saturday, June 22nd - 11:00 am

The Crossings Center

## OFFICIAL RULES

1. Cars must weigh 5 ounces or less.
2. Cars must be made from an official pinewood derby kit.
3. Cars must have all 4 Pinewood Derby kit wheels on them.
4. Axles and wheels must use the original axle slots on the car.
5. No motor, spring, or external power can be used to help propel the car
6. Lubricate the wheels before submitting the car to the judges.
  - a. The only lubrication allowed will be dry graphite. No oils allowed.  
\* Once the car is submitted, no additional lubrication may be added.\*
7. Only judges and car owner will be allowed to touch the cars once car has been submitted to judges.
8. ***Listen, Learn and Have Fun!***

Trophies will be awarded for: 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup> place in each class plus 'Best of Show' - Good Luck and Have Fun!

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### REGISTRATION – COST – DETAILS

Pinewood Derby car kit: \$7.00

*Kits are available at Rislow Service Center and Lewiston Hardware Hank.*



### How to Make a Great Pinewood Derby Car

**Step 1:** Design Your Pinewood Derby Car Plan (Template).

Copy a plan or design you like, or, better yet, create your own design. Make a template or draw your design onto the side of the wood block.

**Step 2:** Cut the Pine Wood Block

For easiest major wood removal, have an adult cut the design outline with a power band saw or scroll saw (be sure to cut the side outline first). If you don't have access to power tools, you can do this with a wood rasp.

**Step 3:** Shape and Sand the Pinewood Derby Car

We recommend you use a wood rasp for major wood removal. Then, smooth with course sandpaper. Finish with 220-grit, extra-fine sandpaper.

**Step 4:** Add Weight to Your Pinewood Derby Car

Cars weigh approximately 2-3 ounces after being shaped and sanded. Your total weight for the finished car cannot be over 5 ounces. Place your car, 4 axles, and 4 wheels on a platform or postage type scale to see how much weight you need to add. You can either drill holes in the bottom of the block to add weight and then add molten lead (you can use car balancing weights from a tire shop) or you can poke lead wool (available at plumbing stores) into the holes. External weight could also be added. You should leave a little fudge-factor for the paint and hot glue that will hold the axles in place.

**Step 5:** Paint Your Derby Car

There are many ways to paint your car. We suggest that you use a primer or sealer. Then paint the car using a gloss enamel spray paint. Let the paint dry completely between coats. Then add your numbers, decals, etc.

**Step 6:** Mount the Wheels and Axles

The blocks have a pre-cut axle-groove. Lightly sand the axles to make them smooth. (Put pointed end into 1/4" or 3/8" electric drill chuck, spin up and polish with fine steel wool). With an adult's help, place the axles through the wheels and gently tap the axles in. Make sure the wheels are square with the car body. When spun, the wheels should move freely, but they should not wobble. After you have the wheels set, run a line of glue (we suggest using a glue gun) along the axle grooves to keep the wheels and axles in place.

**Step 7:** Plan to Keep Your Pinewood Derby Car in a Safe Place

A small shoe box works well. You might want to pack your car in an old hand towel-to add more protection

**2024 LEWISTON HEARTLAND DAYS  
PINEWOOD DERBY – OFFICIAL REGISTRATION FORM**

**Name** (please print): \_\_\_\_\_

**Address:** \_\_\_\_\_

**City:** \_\_\_\_\_ **State:** \_\_\_\_\_ **Zip:** \_\_\_\_\_

**RACE CLASSES**

(Please circle the class you are entering)

- AGE: 11 TO 17**
- AGE: 6 TO 10**
- AGE: 5 AND UNDER**

Please e-mail your registration form in advance to: Mark Simon at [lewistoncubscoutspack16@gmail.com](mailto:lewistoncubscoutspack16@gmail.com)

