



2024 Scout Expo

PINEWOOD DERBY RULES

SATURDAY OCTOBER 19, 2024 SCHEDULE

- Open Racing from 10:00am to 12:00pm
- Pinewood Derby Car Check-In from 12:00pm to 1:00pm
- Pinewood Derby Races to begin at 1:30pm and continue until complete
- Awards will be presented at the Pre-Campfire program on Saturday evening.
- Winning cars will be held until the Pre-Campfire program.

ALL CARS MUST HAVE THE OWNERS NAME AND CONTACT PHONE NUMBER ON THE BOTTOM

SCORING METHOD

Recorded Speed

Cars are scheduled to race on the track, then the time for every run is compiled, and the car completing the all races in the least amount of time is the winner. The top 3 cars will be placed according to their elapsed time.

CLASSIFICATIONS – 1st, 2nd, 3rd Place Winners for Each Classification

Open Youngster Division

Any Youth in Cub Scouts or Kindergarten through 5th Grade

Open Youth Division

Any Youth in Scouts BSA, Venturing, Explorers, Sea Scouts or 6th grade through 18 years old.

Open Adult Division

Any Adult leader or person 18 and up wishing to compete

Unlimited Racing

Allows anyone to build cars with no limitations other than the rules applying to Height.

GENERAL RULES

1. Each car must pass inspection by the race staff before it may compete, after which only race staff may handle the car. At Check-In, no weight changes will be allowed unless the car is overweight. Bring your car ready to race. **Participant does not need to be present to race.**
2. After check-in, adjustments are not allowed. Car repairs during a race will be allowed.
3. If during the race, a car leaves the track, runs out of its lane, interferes with another car, loses an axle, etc., the race will be rerun, if the car does it again during the race it will be disqualified.
4. Good sportsmanship and behavior is expected.

BODY RULES

The main body structure (chassis) must be made of wood. The car design may be enhanced by the addition of other stable materials such as plastic or metal. Any additions must be firmly attached, non-moving, and meet car size specifications. The car must meet the following specifications:

- Width – Must not exceed 2 ¾ inches
- Length – Must not exceed 7 inches, and no portion of the car will be allowed to extend forward of the starting gate.
- Weight – Must not exceed 5.0 ounces (141.75 grams), the official race scale that is used at car check-in shall be considered final. (5.0500 on a scale with more digits beyond decimal)
- Height – Must not exceed 3 inches to clear the timing device.
- Clearance - Minimum distance under the body is 3/8 on an inch. Minimum between the inside of the wheels is 1 ¾ inches.
- Wheelbase – The distance between the center of the front and rear wheel must be no less than 4 inches.
- Front – Must be at least ½ inch wide at the center of the car to accommodate the starting gate, and to trigger the finish line.

The following items are not allowed:

- Springs, starting devices or propellants, car must be powered by gravity only.
- Electronic or lighting devices that interfere with the race electronics.
- Liquids, wet paint, oil, sticky substance, or powders of any kind (other than axle lubrication).
- Glass or excessively fragile parts.
- Bearings and or bushings.
- Hubcaps covering the nail head.
- Loose / moving objects on or in the car.

WHEEL RULES

- All 4 wheels are required.
- All 4 wheels must be touching the track.
- All lettering and numbering, both inside and outside of the wheel must remain complete and be visible with the wheel on the car.
- You may remove the seams and imperfections from the wheels.
- The fluting, spokes and other markings on the outside wheel area must remain visible.
- The tread surface must be flat and completely touching the track.