



Frontier District's
Annual Pinewood Derby
The Mall at Robinson
March 14, 2026

Leader & Parent Guide



Schedule:

10:30amWebelos/AOL Check In

(AOLs will be asked to check in first)

11:00amOpening

11:05amWebelos/AOL Races (AOLs race first)

12:00noonBear Races

1:00pmWolf Races

Meal Break

2:30pmTiger Races

3:30pmLion Races

4:30pmBest of Show / Grand Race Off

Please check in during the race before yours.

If possible, please check in no later than 15 minutes prior to the start of your race.

Costs:

\$10.00all participating Cub Scouts

Please Note:

The races will be recorded with a video link supplied later.

All Cub Scouts must always be escorted throughout the mall by their parent/guardian.

Pinewood Rules

Car Body / Dimensions:

- Wheel Base:.....Wheels must be attached to axles and located in original axle grooves.
- Height:.....Not to exceed 3" (three inches).
- Length:.....Not to exceed 7" (seven inches).
- Width:.....Not to exceed 2-3/4" (two & three-quarter inches).
- Weight:.....Not to exceed 5.0 ounces (141.8 grams) measured on 1/10th digital scale.
- Additional materials may be added as long as they meet the rules.
- 4 BSA Axles & BSA Wheels must be installed to the side of the car body directly across from one another / No more than a 45-degree angle.
- Front of car must have at least a 1/4" flat area centered to allow for proper contact with the starting pin. No sharp points in the front of cars.

Axles:

- Minimum Diameter: 0.084.
- Axles must have a nail head.

Wheels:

Only BSA wheels are permitted.

- May be CnC'd, lathed, polished and/or sanded to true the edge of tread, surface and circumference.
- The tread / contact surface must remain flat and parallel to the bore as humanly possible.
- No Angling, Reshaping, Canting, Round Crowning, Tapering, H-ing, V-ing, Dishing, the outside of the wheels and/or tread surface.
- Lettering must remain visible on the inside and outside of the wheel.
- Wheel covers may be used only if the entire wheel is visible.
- 7.50mm Minimum Tread Width.

Pinewood Rules

Continued

The following Modifications are Not Allowed:

- a. Starting or finish line devices.
- b. Electronic or lighting devices.
- c. Glass or extremely fragile parts.
- d. Paint that is wet, smudges, or extremely sticky.
- e. Bearings and/or Bushings.
- f. Sharp objects, sandpaper, or abrasives on the bottom of car. (We do not want any damage to the track or the rubber stopping pads.)
- g. Axles and/or wheels attached to any device that mechanically or alters rotation and spin.
- h. Any part of the car to go beyond the starting peg before the peg is completely lowered.
- i. Propellants.

Pinewood Pit Table

Rules

At Check In:

- At time of check in, Parent(s)/Guardian(s) may the modify car, in order for the car to comply with the criteria presented on pages 4 & 5, (which may include adding weight, reducing weight, replacing non-conforming parts with BSA approved parts, etc.) in front of a District Pinewood volunteer at the Pit Table.
- If the car was weighed and checked prior any modification, the car must be re-weighed and re-checked for acceptance.
- Graphite may be added, (if desired), prior to final acceptance of the car.

Fallen / Broken:

- If a car has fallen or broken, Parent(s)/Guardian(s) may check the car and fix it in front of a District Pinewood volunteer at the Pit Table.
- Only repairing the damage is allowed – No Modifications permitted, (which includes adding graphite).
- The car must be re-weighed, before it can continue racing.

Grand Race Off:

- Just prior the Grand Race Off, Parent(s)/Guardian(s) will be notified that they are permitted to add graphite, (if they so choose) – graphite is not allowed to be added prior this announcement.
- No Modifications permitted, unless the car has fallen or broken – see above rules governing Fallen/Broken.