

[see SignUp Genius](#)

PINEWOOD DERBY

Clinic

Sunday, January 7th
12:00PM-4:00PM

Needham Furniture Makers
590 Hillside Ave, Needham,
MA 02494

Please RSVP for a time slot
(see SignUp Genius email).

Weigh-In & Registration

Thursday, February 2nd
6:00PM-8:00PM (tentative)

The Alexanders, 64
Mayflower Rd, Needham

Pinewood Derby

Sunday, February 5th
1:00PM-5:00PM

Christ Episcopal Church

Questions?

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2023



Pinewood Derby

The Pinewood Derby is a GREAT annual Pack event for the entire family! Come cheer for your Scout and watch his/her car race against other scouts in the Den. Top finishers from each Den compete in the Pack championship and everyone goes home with a patch. This is a not-to-miss event!

Important Guidelines for Making a Car

1. Make a new car **with the kit provided by the Pack.**
2. Follow the rules in the instruction book, but **please note: the rules in this document override any rule in the book.**
3. Plan ahead so the paint is dry **before** the weigh-in.
4. Put your number (as assigned on the box) on the car where it can be seen as it races.
5. Decide on the car's name **before** weigh-in.
6. Weigh your car before the weigh-in. Cars can be **no more than 5 ounces.**
7. Use powdered lubricant (optional) on your wheels and axles before the weigh-in. **No lubricant or graphite is allowed at the weigh-in.**

[see S](#)

Cars Must Meet These Requirements

Maximum Weight: 5 oz.

Maximum Width: 2.75"

Maximum Length: 7"

Maximum Height: 5"

Distance Between
Wheels: 1.75" (must fit
on track)

Minimum Track Clearance:
 $\frac{3}{8}$ "

Standard unmodified
wheels and "nail" axles
(supplied with kit) must be
used; no after-market
wheels and/or axles are
permitted

Assigned car number
must be clearly visible and
firmly attached or painted
on the car

Additional Derby Rules on
following page

Weigh-In & Registration

The Weigh-In marks the official registration for the Pinewood Derby race. Cars are registered by number and name. They are weighed and checked against size requirements (see sidebar) and inspection rules (see following page). **Registered cars remain with the Race Committee until after the race. Scouts get their cars back after the race.**

Simple tools will be available at the weigh-in to remove excess weight, attach weight if needed, and for emergency repairs. **If you are unable to attend the Weigh-In, you must arrange another time to weigh-in with the race committee. No car can race without being weighed.**

Scout Leader, Parents, Siblings & Friends Race

There will be additional races for leaders/parents and siblings. Anyone is welcome to enter. **Additional car kits may be purchased from the Pack for \$5/each.** The same Derby rules apply and all cars must be entered at the Weigh-In.

Supplies & Resources

Please read the rules regarding non-BSA kits and wheels.

Car Templates:

1. [Pack 867 Templates](#)
2. [Scoutlife - Awesome Cars of 2020](#)
3. [Template Lab - 39 Awesome Templates and Ideas](#)

General Resources: [Pinewood Pro](#)

Michael's Craft Stores, Hobby Lobby and the local Scout Shops also carry car-making supplies.

Note to Parents

Scouts should build their Pinewood Derby cars *by themselves*. Excessive parental involvement is grounds for disqualification. All judges' decisions are final, and arguments about the decisions will be cause for disqualification. This event is run by volunteers and should be a fun event for everyone.

[see SignUp Genius](#)

Derby Rules

Cars must pass the inspection rules below during registration to qualify for the race.

1. Car must have been made during the current Scouting year. No manufactured or pre-cut cars are allowed. Only cars made from the Official Cub Scout Pinewood Derby Kit as purchased from any of the New England Scout Shops, trading posts, or BSA authorized shops are acceptable.
2. No loose material of any kind (such as lead shot) is permitted in or on the car. The car may be hollowed out and built up to the maximum weight by the addition of wood or metal only, provided any additional material is securely built into the body.
3. No modification of the wheelbase is allowed, i.e. moving of the axles forward or backward from the original position. Anything that protrudes more than ¼" from the bottom of the car runs the risk of dragging on the track.
4. Axles, wheels and the body wood shall be as provided in the Official Cub Scout Pinewood Derby Kit. Removing burrs or casting flaws in the supplied "nail" axles is permitted.
5. Wheel bearings, washers and bushings are prohibited. Rounding or pointing of the wheels or any other modifications of the wheels is prohibited.
6. Cars must ride on all four wheels. No wheels shall be intentionally angled or lifted. The car shall not ride on any type of springs.
7. Any details added must be within the dimensional limits.
8. The car must be freewheeling with no starting devices.
9. No oil grease or silicone spray may be used on the axles or wheels. Only powdered graphite lubricants are allowed.
- 10. The scout must have built the car him/herself** with minimal parental involvement.