

# Pinewood Derby

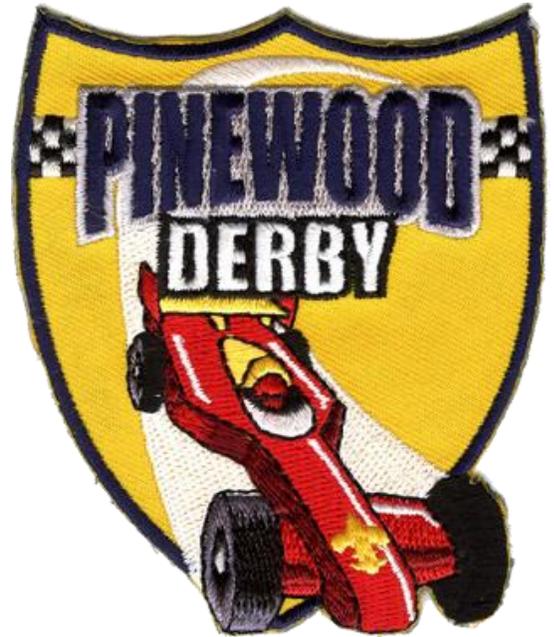
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## Rules & Tips

Each scout should experience the satisfaction of building his own car from the pinewood derby kit. Parental assistance is encouraged and safety is the first concern, but the car should be the product of the scout and not the adult. The cars should be built in concert with the skills of the participant. Good sportsmanship is expected from everyone involved.

### Car Specifications:

- Car size shall not exceed:
  - Width 2 3/4" (including the wheels)
  - 1 3/4" (where the wheels contact the body)
  - Length 7" (some blocks are longer)
- Axle location cannot be altered (Note: You can however square-up the grooves if necessary to make the car run straight.) All cars will be placed on an official BSA template to verify axle location the night of check-in.
- Car weight shall not exceed: 5.00 ounces
- The car must have at least 3/8" under-clearance from the wheel rolling surface to the bottom of the car (between the wheels).
- Axles, wheels and body must be from the materials provided in the official BSA pinewood derby car kit. No Exceptions!
- Additional trim items are allowed as long total weight doesn't exceed maximum weight and size.
- Wheel bearings, bushings and washers are not permitted.
- The car may not ride on springs or other suspension.
- The car must be freewheeling and gravity powered. No auxiliary form of propulsion is allowed including motors, rubber bands, rockets or magnetic devices.
- No loose materials (weights, characters or trim) are permitted. Fasten all securely.
- Do not alter the wheel shape or profile. You may eliminate burrs and molding marks.



## General Rules

- Only one car per registered Cub Scout may be entered.
- Open Class (for anyone that is not a Cub Scout) – Parents and siblings can enter a car following the same rules as the Scouts.
- Once inspected and accepted, the car may not be altered in any way.
- The car entry must have been built for this year's race.

## Trophy Categories

- 1-4 Place in the overall Pack.
- 1-4 Place in each Den.
- 8 Award categories in overall Pack:
  - Best paint job
  - Best scout spirit
  - Best scout effort
  - Least aero-dynamic
  - Most realistic
  - Most creative

- Cubmasters choice
- Most patriotic

## Resources

- Official Pinewood Derby website  
<http://www.pinewoodderby.org/>
- Boys' Life Magazine  
<http://boyslife.org/hobbies-projects/projects/2952/speed-secrets/>
- Pinewood Derby Car Building Tips  
<http://www.maximumvelocity.com/pinewood.htm>
- Scouting The Net  
<http://www.scoutingthenet.com/Derbys/>