SOARING EAGLE DISTRICT PINEWOOD DERBY April 20, 2024



Norwayne Community Center 161 S. Main Street, Creston





COMPETITIONS FOR SPEED AND APPEARANCE

All registered Soaring Eagle District Cub Scouts are welcome to participate

Racing Eligibility	Top 2 winners from EACH Cub Pack rank;	
	Lion, Tiger, Wolf, Bear, Webelos, AOL	
	Includes Webelos AOL crossing over in 2022	
	Up to 12 racers per Pack	

Appearance CompetitionAny registered Cub Scout that competed in 2022 Pack Race (racers automatically included)



FEES: Race and Appearance Competition

Online registration \$10.00 per participant

Appearance Competition [only]

Online registration \$5.00 per participant

PRIZES: Race Competition

Trophy (1st, 2nd & 3rd) awarded for each division; Lion, Tiger, Wolf, Bear, Webelos and AOL

Appearance Competition

Certificate for each category (Most Scout like, Best Color Theme, Best Block Theme, Military Theme, Patriotic Theme, Animal Car, Best Movie Theme & Funny Car.)

Pinewood Derby Patch

Awarded to each registered participant

REGISTRATION:

- Online registration only at Soaring Eagle Council website: <u>www.gtcbsa.org</u>
- https://scoutingevent.com/433-Pinewood
- Register BY PACK
- Registration will close Monday April 15, 2024.

<u>Uniforms</u>: Class A Scout uniform is required (please be neat and "tucked in") No athletic clothing will be admitted during race day!!!

<u>Times:</u> April 20 April 20	Tentative AOL: Webelo:	START Registration 10:00 am Race Time 11:15 am Registration	END 11:00 am 12:45 pm 11:00 am 12:45 pm
April 20 April 20	Bear: Wolf:	Registration1:00 pm Race Time1:15 pm Registration1:00 pm Race Time1:15 pm	2:00 pm 2:45 pm 2:00 pm 2:45 pm
April 20 April 20	Tiger: Lion:	Registration3:00 pm Race Time4:15 pm Registration3:00 pm Race Time4:15 pm	4:00 pm 5:45 pm 4:00 pm 5:45 pm

SOARING EAGLE DISTRICT FROM TIGER PAWS TO EAGLE CLAWS

<u>Contact:</u>

Rocky Sayers District Activities Chair

Rocklyn.campbell@gmail.com

2024 Official Soaring Eagle Pinewood Derby Rules

- The following are the rules that apply, regardless of how Pack races are conducted
- All cars must pass inspection to qualify for the race. Scouts will have an opportunity to adjust cars to meet qualifications prior to final check-in.
- Disqualified cars may be permitted to run, but will not receive time standings, rankings, or awards.
- All car bodies, wheels and axles must be from a BSA model/kit.
- The car must have been made during the current year. Prior year cars are not permitted.
- All cars must be designed and built by the Scout, with limited reasonable assistance.
- All cars will be inspected for the following:

Car Body / Dimensions

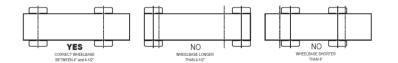
- Height: Not to exceed 4" (inches)
- Length: Not to exceed 7" (inches)
- Width: Not to exceed 2.75" (inches)
- Bottom of car must be minimum of 3/8" from ground for track clearance.
- Maximum Weight: Not to exceed 5 ounces (142.7 grams) measured on 1/10th digital scale
- Minimum Weight: 4 ounces (113.4 grams) to ensure a competitive race for each child.
- Additional materials may be incorporated if they meet the car dimensions previously stated
- The minimum front nose width shall be at least 0.5" at the center and parallel with the front axle to operate properly at the starting gate.
- Axle slots or drilled holes for axle placement:
 - 4 axles & wheels must be installed to the side of the car body.
 - Wheels must clear the outside-to-outside center rail width measurement
 - Track Center Rail Height : 1/4" inch (7mm)
 - Track Center Rail Width : 1 5/8" inches (4.2 cm)

<u>Axles</u>

- Must be official BSA model/kit axles.
- If an axle slot is not straight, is broken, defective, or otherwise not usable as determined by the car builder, a new slot or hole may be cut or drilled. The new hole or slots can be moved forward or backward ¹/₄" from original axle slot

position. However, the axles must be spaced apart (or have a wheelbase) between 4" and 4-1/2."

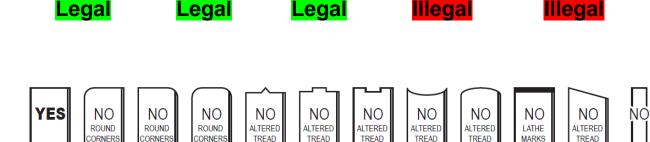
• Any alterations to official BSA axles to reduce friction is permissible. However, bending the axles for the purpose of canting the wheels will be strictly prohibited and enforced.



<u>Wheels</u>

- BSA branded/authorized new and old permitted, including color wheels
- May be sanded, polished and lathed enough to remove: mold casting burs, imperfections, edge of tread surface and to true the roundness
- Tread / contact surface must remain flat and parallel to the racing surface.
- Small detailed marks on the edge of the wheels must remain visible around the entire circumference.
- The following are forbidden on the outside of wheels and/or tread surfaces:
 Angling, reshaping, canting, round crowning, tapering, H-ing, V-ing, dishing
- No removing or reducing the letters or spokes.
- No less than 7.50mm tread width (may be checked with digital calibers)
- No drilling additional holes
- Must weigh at least 2.1 grams each (honor system, but inspector could ask to remove / weigh if suspected)
- Wheel covers may be used only if entire wheel is visible.
- Axles may be lubricated by powered graphite only. Lubricating oils or other lubricants are not permitted.
- Hubcaps are not permitted.





Forbidden Modifications

- Any part of the car extending beyond the starting peg.
- Starting or finish line devices or propellants
- Electronic or lighting devices
- Any device that mechanically alters rotation and spin of the axles or wheels
- Magnets
- Bearings / bushings
- Glass or extremely fragile parts
- Paint that rubs off, smudges or is extremely sticky
- Sharp objects on the bottom of car (to avoid damage to the track or rubber stopping pads)

After Check-In

- Following final inspection and weigh-in, cars will be placed in a roped-off table to await the start of the race.
- Only designated youth pit crew will be allowed to handle cars until after the race.
- No further modifications can be made. If the pit crew encounter a problem (i.e. a wheel coming off), it is pit crew and/or judge discretion to ask the Scout and/or guardian to correct the problem. Every attempt will be made to have every Scout race and be successful.
- No car will be permitted to race without the Scout present.

<u>The Race</u>

- Drivers (Scouts) are permitted to sit at end of the track during rank racing
- Only youth pit crew members are permitted to handle the cars.
- Spectators (non-racers) must remain behind the marked line/barrier.
- Starters will ensure cars are on the track properly.
- During the race, cars with loose parts will either have to remove the parts or face possible disqualification.

- Cars unable to remain on the track faces possible disqualification:
 - 1st instance results in car inspection, repair (if able) and heat to be re-run
 - 2nd instance results in disqualification (to avoid other car and/or track damage)

Race Results (Determining the Standings)

- Each car races two times PER LANE (e.g. 4 lanes = 8 race heats)
- Lowest heat score will be eliminated
- Standings/winners determined by cumulative (total) times of the 7 best heats
- Tie-breaker rules based on all 8 heat times.

Appearance Competition

- Display only no racing
- Eligibility all Soaring Eagle District Scouts that participated in a current year Pack Pinewood event
- Certificate awarded for Most Scout like, Best Color Theme, Best Block, and Military Theme.