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 Competition ......Any 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 (1<sup>st</sup>, 2<sup>nd</sup> & 3<sup>rd</sup>) 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	<b>END</b> 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

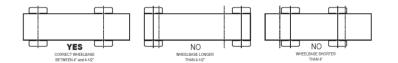
- Height: Not to exceed 4" (inches)
- Length: Not to exceed 7" (inches)
- Width: Not to exceed 2.75" (inches)
- Bottom of car must be minimum of 3/8" from ground for track clearance.
- Maximum Weight: Not to exceed 5 ounces (142.7 grams) measured on 1/10th digital scale
- Minimum Weight: 4 ounces (113.4 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 <sup>1</sup>/<sub>4</sub>" from original axle slot

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

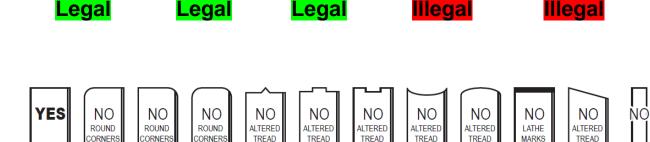
• Any alterations to official BSA axles to reduce friction is permissible. However, bending the axles for the purpose of canting the wheels will be strictly prohibited and enforced.



#### <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:
  - 1<sup>st</sup> instance results in car inspection, repair (if able) and heat to be re-run
  - 2<sup>nd</sup> 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.