

## S.L.S. BEAVER BUGGY RALLY RULES 2021

**To the Beavers:** Welcome to the 2021 SLS Beaver Buggy Rally! We hope you're looking forward to having a lot of fun designing, building and racing your very own Beaver Buggy. It's exciting to think that you can use your creativity to design the theme of your Beaver Buggy to make it as unique as you are! You can base it on your favorite colours, your favorite character or even something no one's seen before. Those pieces of wood in the Beaver Buggy Kit can become just about anything you can imagine.

**To the Parents:** We are pleased to present the latest edition of the Beaver Buggy Specifications. The regulations contained in this document are common to Beaver Buggy Rallies throughout Ontario and are reviewed annually to maintain the spirit of fair competition amongst our Youth. We enjoy seeing the excitement of the Youth on Race Day, and we hope that you share in their feeling of accomplishment as they watch the Beaver Buggy that they have built cross the finish line. We would ask that you provide guidance to your Cub through the construction process, allowing them the freedom to bring their designs from the paper to the track, while instilling in them the value of fairness in competition.  
**Always remember: A broken rule, a disappointed Beaver Scout.**

First and foremost, the intent of the SLS Beaver Buggy Rally event is for all registrants to have fun building and racing a Beaver Buggy of their own design, through a means that promotes fair play, friendly competition and positive social engagement with other racers.

Beaver Buggies found not to meet all requirements listed below will be relegated to the alternative “fun” race component of the Rally, where times will be recorded and provided to participants, but not counted towards competition or the awarding of prizes for speed.

Registration of a Beaver Buggy for participation in the 2021 SLS Rally will be viewed as an acknowledgement by the Entrant that they have read these rules completely and agree to abide by them and all race day decisions made by race officials.

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### 1) Beaver Buggy Kits

Include:

- a. 1 block of wood
- b. 1 plywood beaver outline
- c. 5 wheels (including 1 spare)
- d. 5 nails (including 1 spare)

**Beaver Buggies must be constructed from the material supplied within the kit.**

### 2) Beaver Buggy Design Specifications:

- a. Overall width not to exceed **70 mm**
- b. Overall length not to exceed **178 mm**
- c. Overall height not to exceed **150 mm**
- d. Wheels must be a minimum of **45 mm** apart in width, in order to clear the track with no modification.
- e. Clearance between the Beaver Buggy body and the track must be a minimum of **10 mm**
- f. No part of the Beaver Buggy may overhang or extend beyond the start barrier. If a Beaver Buggy is constructed in such a way that it does, the Beaver Buggy will be run backwards if that resolves the issue.
- g. Wheels shall not be shaped, profiled or machined, but may be lightly sanded to remove mould flashing or burrs.
- h. Beaver Buggies shall be free-wheeling and must be propelled only by the force of gravity.
- i. No starting mechanisms (e.g. motors, magnets, etc.) shall be permitted.
- j. Bearings, washers and bushings on wheels and axles of any kind are prohibited.
- k. Beaver Buggies may not ride on springs or have a suspension of any kind.
- l. All four wheels of the Beaver Buggy must touch the track surface at the same time while racing.
- m. Wheels shall be mounted to the Beaver Buggy so that they are vertically square to the track surface and the full flat portion of the wheel shall be in contact with the track surface (in other words,

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Beaver Buggies are to have ZERO wheel camber).

### 3) Beaver Buggy Weight Specifications:

- a. The Beaver Buggy cannot weigh more than **100 grams**
- b. The only weights that are allowed to be added to a Beaver Buggy are Canadian Beaver nickels. These weights are to be glued to the top of the Beaver Buggy base.

### 4) Finishes:

- a. Wood fillers may be used to fill scratches and joints
- b. Glue may be used for joining parts and filling scratches and joints
- c. Paints and enamels may be used for finishing
- d. Wood fillers, glue, and paint or enamel may not be used in forming parts of the Beaver Buggy.
  - i. (e.g. molding fenders from glue and sawdust is not allowed)
- e. If glitter is used, it **MUST** be sealed with a clear finish.
- f. **DO NOT PAINT the bottom of the Beaver Buggy**, this area is to remain unfinished for identification.
- g. All entrants must have the following information in ink on the unpainted bottom of the Beaver Buggy:
  - i. The Beaver's Name
  - ii. The Beaver's Age (as of Dec 31, 2020)
  - iii. The Beaver's Scout Group
  - iv. Reference to the current year: 2021
- h. Any decals that are used must be secured on the Beaver Buggy with either glue or the finish.
- i. The final paint or finish of the Beaver Buggy shall be dry to the touch upon submission. Beaver Buggies with wet paint or finish shall not be eligible for racing as this may affect the track and, by extension, other Beaver Buggies.

### 5) Lubricants

- a. Light oil or graphite powder may be used as lubricants for the wheels and axels, but must be placed on the vehicle prior to submission for racing. No excess lubricant is permitted and no "top ups" between races will be administered.

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- b. Each Beaver Buggy will be assessed for excess lubricant by the officials on race day and the officials have sole responsibility for this judgement. If a Beaver Buggy is judged to have excess lubricant it will be relegated to the alternative “fun” races of the event where times will be recorded, but not counted towards the competition or awarding of prizes for speed.

### 6) Attachments

- a. Details and attachments may be added providing they are securely fastened and do not exceed the maximum width, length, height and weight specifications.

### 7) Entries

- a. Only one Beaver Buggy may be entered per Beaver.
- b. Upon registration each Beaver Buggy entrant will receive a registration number for their vehicle. The registration number is to be displayed at the top rear of the Beaver Buggy base. Only the registration number is to be used on the Beaver Buggy, no other numbers are to be shown.
- c. Beaver Buggies that have previously raced as part of a SLS Rally are welcome to register as participants in the Beaver Buggy Fun Races.
- d. The cost for registration for the 2021 SLS Rally is **\$7.00** per Buggy.
- e. All registered entries receive a 2021 SLS Rally event badge.
- f. 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> place prizes will be awarded for fastest Beaver Buggy and for best Beaver Buggy design, determined exclusively at the discretion of the race officials.