

ROUND HILL HOMETOWN FESTIVAL

Downhill Derby

Pull out those hammers and saws and start building!

It's time for the Round Hill Downhill Derby!

A favorite part of the Round Hill Hometown Festival – Saturday, May 27, 2017!

The Round Hill Down Hill Derby is a rather unstructured social event designed for kids ages 6 to 17 to encourage participation and family fun with safety as the top priority.

Awards will be presented for Race Winner, Best-in-Show, Best New Car, and more!

The following car design criteria are based primarily on safety, low cost and ease of entry. This is not an official soap box derby race. Handmade cars with children's participation in construction and painting are preferred over kit cars.

Car specifications:

- Cars should be 3' wide from wheel to wheel and not more than 6' long from nose to tail.
- Wheels should not be bigger than 12" in diameter.
- Cars should provide enclosure for the driver including a solid bottom or pan, solid sides and solid top except in cockpit area to protect driver in the event of collision or roll over.
- Cars should be low enough to provide stability but high enough in nose and tail areas to allow for up to 20 degree ramp at starting area.
- Steering axle pivot bolt should be set as far in front of axle line as possible to aid in straight line travel. Steering axle should be limited in turning radius to prevent over-steer and loss of stability.
- Steering should move easily to allow smooth and slight course correction and must be easily managed without interruption for braking or other activity.
- All bolts and fasteners on wheels, steering, and braking assemblies should employ self-locking washers, nuts, or cotter pins to prevent loosening and be of sufficient size to handle stresses and forces encountered.
- Cars must have a mechanism to stop the driver and vehicle promptly when in motion on course and a brake for parking. Braking mechanism must allow the driver to stop the vehicle at the end of the race or upon encountering any other condition on the course. Plunge-style brakes are strongly encouraged. Cars that cannot stop without assistance within 75 feet of the finish line will not be allowed to race.
- Three-point safety harness (shoulder and lap belt) and helmets are required.
- The maximum combined weight of the car and the driver may not exceed 250 pounds. Cars with drivers will be weighed prior to practice runs; organizers will rely on an honor system during the heats.

Online Resources:

A list of helpful links can be found on the Derby page of www.hometownfestival.org.

Event Coordinators:

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**For more on this event please visit www.hometownfestival.org
or follow the "Round Hill Hometown Festival" on Facebook**