

Lego Brick Derby

Fun for Scouts and Families!

The Lego Brick Derby is a creative, hands-on activity that combines the thrill of the Pinewood Derby track with the imagination of Lego building. Scouts and their friends can design, build, and race their own Lego cars — and then do it again!

What's in the Lego Brick Derby Kit?



1. **Car Bases** – 12 blue plastic bases with wheels attached.
2. **Two containers of Lego bricks** – assorted sizes, shapes, and colors for maximum creativity.



What you need to provide. Please read all directions to determine additional things you may want to bring.

1. Pinewood Derby track **or** you can reserve a Lego track from the council.
2. Table (s) for “Lego Building”.
3. Something to put at the end of the track to serve as a “stopping zone” or impact barrier!
4. Tarp if doing activity outside.
5. Plenty of adult (or older youth) help and supervision.

Planning Before the Event

1. **Track Size & Setup (if you are using your track)**
 - Decide how much of your Pinewood Derby track to bring.
 - Many units choose to shorten and lower the track for Lego cars.
 - Make sure you have something at the bottom of the track to stop cars safely.
2. **Lego Building Area**
 - Designate at least one **6-foot table** as the “Lego Building Table.”
 - Consider having a controlled **entry point** where each child receives their car base — this helps manage crowding and keeps bases from “walking off.”
 - If outdoors, put a **tarp under the build area** to prevent Lego pieces from getting lost in grass.
3. **Surface & Space**
 - A level surface is nice but not critical for Lego races.
 - Think through how much space you have for building, racing, and displaying Scout info.
 - Map your layout: **Building Area** → **Track** → **Car Return Station**.

Event Setup

1. **Welcome Table**
 - Display **general Scouting information**.
 - The *Meet & Greet Box* is a great resource for engaging parents while Scouts build.
 - This is where you will get a chance to talk to the parents/guardian.



2. Track Station

- Set up your Pinewood Derby track.
- Have **an adult or older Scout** stationed at the bottom to:
 - Catch/stop the cars.
 - Remind racers to **return their car base** after each race.

3. Build Station

- Have an entry point where you can hand a base per participant as they enter the build area.
- Be sure to have an adult or older Scout at the Build Station.
- There are two thoughts on the build area. One is to simply have all the Legos in a large container or two on the table. Or use small containers to keep Lego pieces organized:
 - Flat/long pieces in one.
 - Standard bricks in another.
 - Special pieces in a separate bin.

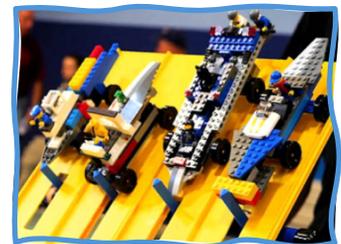
4. Cleanup & Reset

- Legos will scatter! Plan to “reset” the build table about once an hour.
- If one racer leaves a mess, cheerfully recruit the next racer to be a “Super Duper Helper” to tidy a few pieces.

Running the Activity

Step 1 – Build

- You will need an adult or older Scout at the entry point to hand each participant a car base to build their dream Lego car using the pieces provided. Control the number of bases you have out at one time.
- Encourage creativity — funny cars, tall cars, themed cars!
- Have an adult or older Scout at the build station to explain the process and help as needed. They will need to be sure to keep the build area cleaned up and organized.
- Just a reminder that as the youth is building a car you have the opportunity to talk to the parent/guardian about Scouting.



Step 2 – Race

- You will need an adult or older Scout run the race, assist with getting cars on the track and at the end of the track to catch the cars.
- Place the cars at the top of the track.
- Count down and let them zoom! Ready, set, go!
- Some kids will simply want to run their car down the track. Others will want to race.

Step 3 – Return & Repeat

- When they finish racing, collect the base before the youth leaves.
 - Racer returns the car base and any borrowed Lego pieces.
 - Pieces go back into the correct bins so the next Scout can build.
 - Repeat as many times as they like!

Pro Tip for Leaders

This is an **excellent recruiting activity** for school events, pack open houses, and community festivals. While the kids are busy building and racing, leaders have a great opportunity to talk with parents about Scouting and upcoming activities.