



# Design awesome racetracks to win!

Encourage your Group to consider different conditions for racing to win cool prizes!

Suitable for **Beavers and Cubs**

Your Beavers and Cubs will love this activity, which is designed to get them thinking about science on the racetrack while considering forces and energy. By thinking about what conditions make the best and worst racing environments, your Group will explore the factors that impact on cars as they race around the track.

## What to do

**1** Divide your Group into smaller teams and give each team a few sheets of paper and some colouring pens.

**2** Ask your Group to discuss and design the best and the worst Hot Wheels race tracks within their teams, thinking about the following:

- How do surfaces affect the speed of a car? Do they travel fastest on concrete, sand, mud, etc. Why?
- What happens when a car goes

down a ramp? Does it speed up or slow down?

- What would make it hard for a car to 'race to the finish line'?

Their two designs should show they've considered all environmental factors. They can annotate their drawings to highlight the elements they've taken into account.

**3** Discuss the drawings together as a Group. You can even award a prize for the most well-conceived designs.

## WIN

Enter your Group's designs to be in with a chance of winning a Hot Wheels Super Speed Blastway for your Group, so you can continue learning through play. Find out how to enter at [scouts.org.uk/HotWheels](http://scouts.org.uk/HotWheels).

### You will need:

- Paper
- Colouring pens
- Hot Wheels Activity Sheets (optional – available to download from [scouts.org.uk/HotWheels](http://scouts.org.uk/HotWheels))

### More info

These activities will help Beavers and Cubs work towards several badges. Find out more at [scouts.org.uk/HotWheels](http://scouts.org.uk/HotWheels).



Competition terms and conditions: 1) Closing date for entries is 30 September 2015. 2) Only one entry per person permitted, but multiple entries may be sent per Group. 3) Maximum of five prizes per Group. 4) Open to UK Scouting members only. 5) Winner(s) will be notified by email or phone using the details provided at entry.