

Get out your LEGOs or other blocks, find some balloons, and see how far and how fast your cars can go!



### Supplies:

- LEGO or other blocks, including:
  - two axle and wheel sets for each car
  - a piece you can thread the end of your balloon through. In LEGO language, this is called a "handle tile" (don't have one? build an arch on top of your car instead)
- One balloon per car
- Tape measure

### Next:

- Build your car - make it long enough to hold the inflated balloon
- At the rear of your car, place your handle tile or create an arch stacked several bricks high with a hole to feed the deflated balloon into. This arch needs to be high enough so that when you inflate the balloon it will not fall apart.
- Position your balloon through the arch with the opening facing the back of the car and blow it up. Pinch the balloon to keep the air in, place the car on the ground, and let it go.
- Woohoo! How far and how fast did you cars go?
- Not so woohoo? What modifications can you make to improve speed and distance?

Possible mods, because you know you want your car to be faster than everybody else's:

- Racing surface - how will a smoother surface effect your speed?
- Size of balloon - will a larger balloon increase your distance? more inflated? less inflated?
- Which is the better racer, a heavy car or a lighter car?

**We got this idea from our awesome friends at Bedtime Math. Visit the blog post [here](#) for details and activity ideas!**