

We have a challenge for you!

Model Car Challenge



Ready, set, build, test, race! Get the whole family involved and build your own model cars and race track! Learn about force, friction, and gravity to optimize the speed of your car! Share your race with us at gsnnj.

Supplies:

- Toilet paper or paper towel roll
- Markers or paint
- Hole punch
- Scissors
- 4 Plastic bottle lids
- 2 Toothpicks
- Cardboard

Ready, Set, Go...Race!

- 1. Design and build model cars**
- 2. Use model cars to test the friction of different surfaces**
- 3. Race your cars**
- 4. Share @gsnnj**

Let's get racing! Build your car and racetrack then hold your family race!

Who will be victorious?

Why do you think that person won?

Compare your car to others around you.

Would you change anything?



Model Car Challenge Examples

What you need to know:

Friction - is a force that slows moving objects.

Force - is a strength or energy that creates movement.

Push and pull are examples of force.

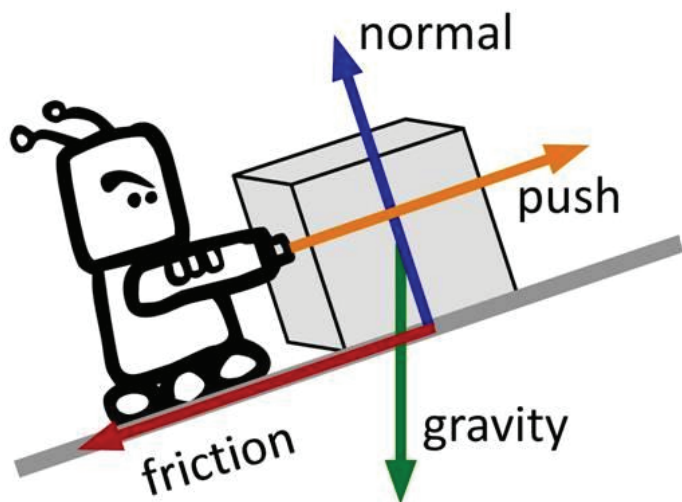
Gravity - is a force of attraction that pulls together all matter.

Matter - anything you can physically touch.



<https://www.freekidscrafts.com/cardboard-tube-race-car/>

<https://www.handimania.com/diy/toilet-paper-roll-race-cars.html>



Build your racetrack. Try testing your car on different surfaces to test friction.