

Powered Lego Car



Video link:

<https://www.youtube.com/watch?v=EHyzir5GK8Y>

Balloon powered Lego Cars race!

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You can do so much with LEGOs, including designing a balloon-powered LEGO car and a !

This balloon LEGO car activity is easy and simple, and it's a fun time for the entire family!

What you need:

- Lego bricks
- Lego wheels
- Balloons

What to do:

Let your child create and build his/her own LEGO car.

Show your child how you can build a hole to stick the balloon through.

Blow up the balloon and hold the end shut while you place the cars on the ground.

Let the LEGO cars go and see which car can travel the farthest!

Keep the LEGO car design simple, if you build too fancy of a car, the weight of the LEGO bricks might impede the car from going far.

The the balloon is able to propel the car without any issues if the car is low, flat, and long.

The hole where the balloon goes does not need to be too big, this helps the car go straight; otherwise, the balloon could fall out or change directions.

RACE TIME!



The science behind balloon-powered Lego cars:

While you can do this activity just for fun, there is an opportunity to experience the science aspect of force and motion!

Show your child how the LEGO car by itself will not do anything. It is not until you release the air from the balloon and apply external force on the car that it starts to move.

Here are some experiments you can do with your child:

- Blow up the balloon bigger. Does the car go faster? Farther?
- Add some more LEGO bricks to the car. How does the extra weight affect how far the car can travel?

Try racing the cars on a different surface (i.e. carpet vs. wood floor).

- Place the balloon higher up or lower down on the LEGO car. How does the placement of the balloon influence how the car moves?