Car Body 1 Cut out half of the cup. 2 Using a pencil, poke a hole in the center of the cup bottom. (The neck of a



- paper cup (hot-beverage cup made of sturdy cardboard)
- scissors
- pencil
- plastic drinking straw
- 2 wooden spools
- 2 small rubber bands

Science Scoop

Think of what happens when you

stretch a rubber band—when

back into its original shape.

you pull it and let go, it snaps

The more you stretch it, the

faster and harder it snaps. A

balloon is like a rubber band.

balloon, you **stretch** the

When you **blow air** inside a

balloon. The more air you blow

inside, the more you stretch the

balloon. The more the balloon is

leaves the balloon. The force of

stretched, the faster the air

the air leaving the balloon

pushes the car forward.

balloon





Think of ways you can improve your balloon car. What happens if you use a larger or smaller balloon? How can you control how guickly or slowly the air escapes from the balloon? What happens if you change the **weight** of your car by cutting away more of the cup? Change one thing (that's the variable). and **predict** what you think will happen. Then test it and send your results to ZOOM.

Wheels

sides of the cup.

- 4 Insert a straw through the holes on the side of the cup. Then, slide a spool on each end of the straw. The spools should touch the ground. If they don't, change the position of the holes for the straw.
- **5 Wrap** a rubber band around the end of each straw. The rubber bands will keep the spools from sliding off.

balloon will go through this hole.)

3 Using a pencil, poke 2 holes in the

Fuel Tank

- **6 Push** the neck of the balloon through the hole in the bottom of the cup. The balloon should be lying inside the cup.
- **7 Blow up** the balloon. Then put your car on the ground, and let the balloon **go**!



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