

CONSTRUCTING A BALLOON POWERED CAR

Car Building Instructions



Instructions for the building a balloon model car are provided here. The resulting car can be used to investigate the relationship between Newton's law, and how potential energy of the balloon is converted into kinetic energy.

Watch the “Creating a Balloon Model Car” video here:

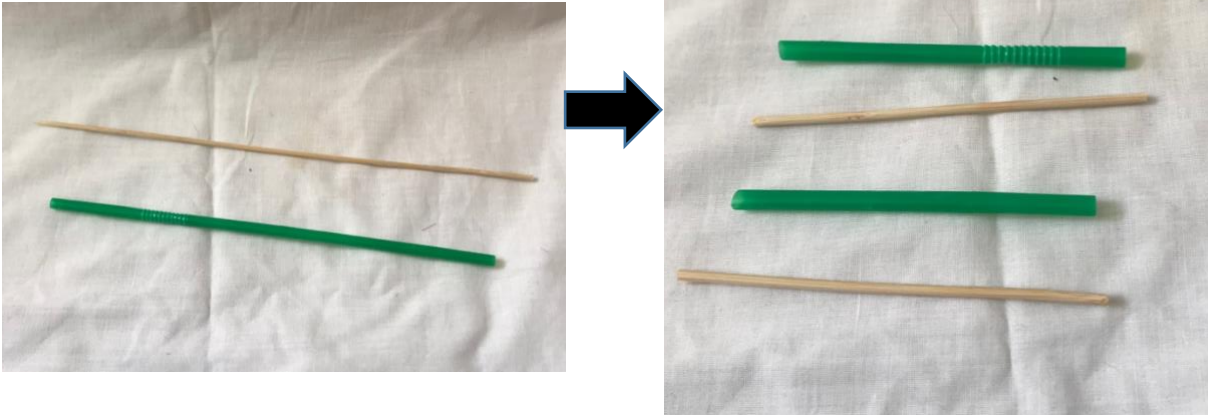
https://video.deakin.edu.au/media/t/1_qclcgdg

MATERIALS	TOOLS
1x Milk carton	Ruler or measuring tape
2x Drinking straws	Scissors
2x Bamboo skewers	Craft knife or blade
4x Light toy truck wheels or plastic screw tops from milk bottles	Hot glue gun
2x Balloons	Sticky tape
1x A4 Poster paper	Safety glasses
Various weights	

Procedure

Making and Assembling the first stage of the car:

1. Cut a skewer so that it is long enough so that either end hangs off the milk carton by 3-4mm.



2. Cut a straw so that it is just shorter than the two skewers.

3. Hot glue the straws to the base of the milk carton as pictured.



4. Feed the skewers through the straws.



- Hot glue the wheels onto each end of the skewers.



- Attach a straw to the top of the car with sticky tape and wrap a balloon around the exposed end of the straw and attach tightly with sticky tape.



- Measure the distance travelled by the car and record the time it takes to travel that distance.



Once completed - Car modification:

1. Remove the straw and balloon attached to the top of the car.

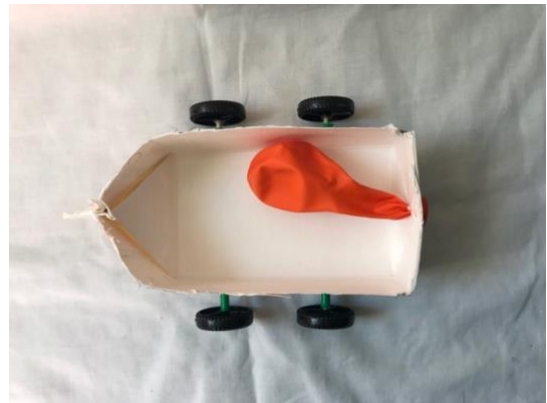
2. Cut the milk carton in half length ways as pictured.



3. Create a small hole in the back of the milk carton as pictured.



4. Feed the balloon through the small hole ensuring it is quite snug.



5. If you wish, create a cone out of poster paper and attach to the front for aerodynamics.

6. Measure the distance travelled by the car and record the time it takes to travel that distance.

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