



Uncle Carl and his Antique Car

Activity Sheet for Students

letsread.asia/UncleCarl



Did you enjoy reading the story of Uncle Carl and his Antique car?



Mechanic Mark thought that the car still working was a miracle. What do you think really powered the car? Was it magic? Or was it something more common? Have you seen petrol and diesel pumps by the roadside while travelling?

Uncle Carl's car runs on fuel like petrol or diesel, do you think a car can move without using such fuel? What if his car was powered by air? It would save him a lot of time, energy and money while starting his car. So, let's make a balloon-powered car for Uncle Carl.



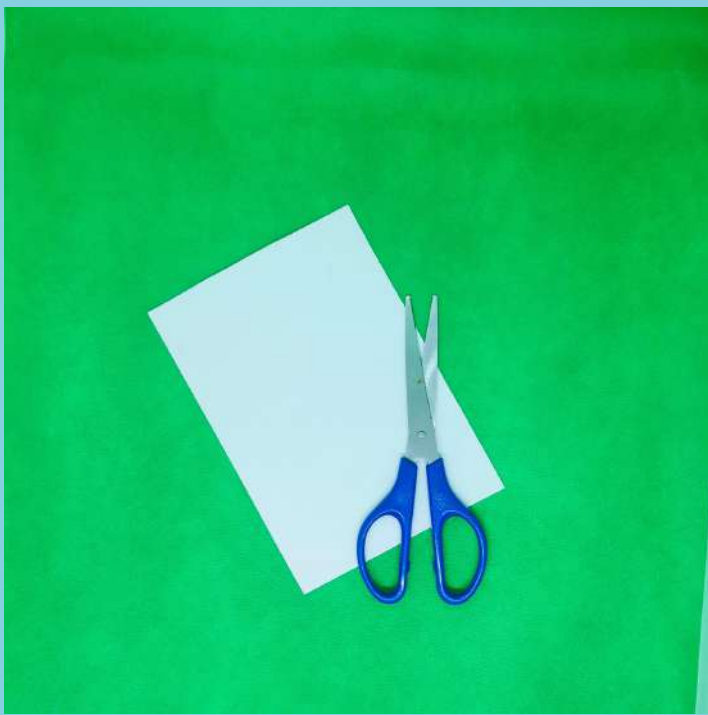
Before we start making,
Make sure to have these:

1. Cardboard piece
2. Bottlecap
3. Rubber band
4. Straw
5. Food stick
6. Masking tape
7. Scissors
8. Balloon



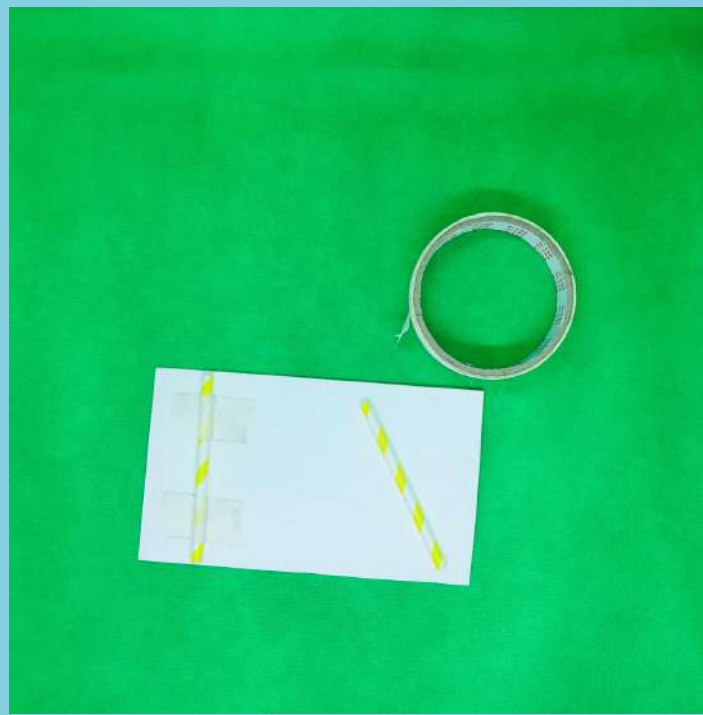


Let's make our own balloon-powered car



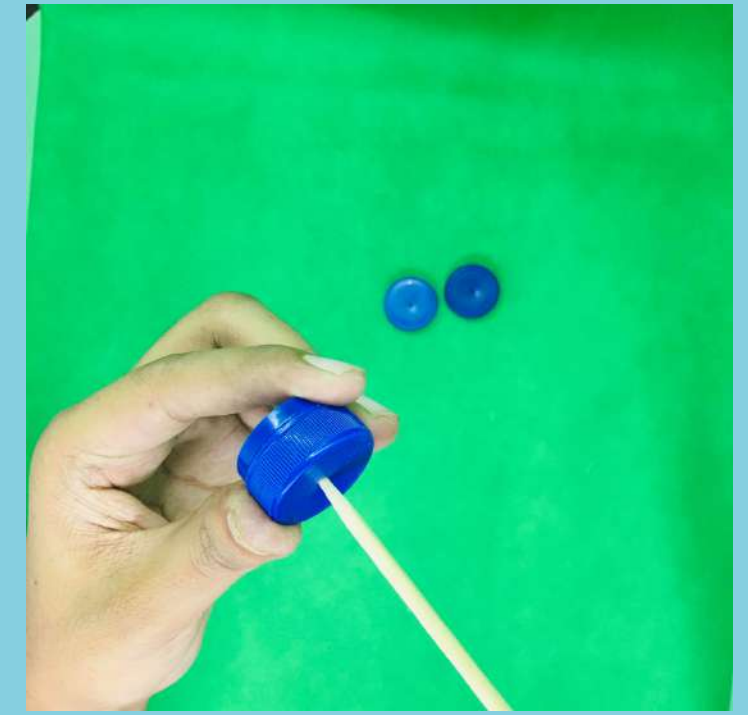
Step 1

Take the cardboard piece and cut it into a rectangle. This will be the chassis of our car.



Step 2

Cut the straw as the size of the width and paste in on the cardboard using masking tape as shown.



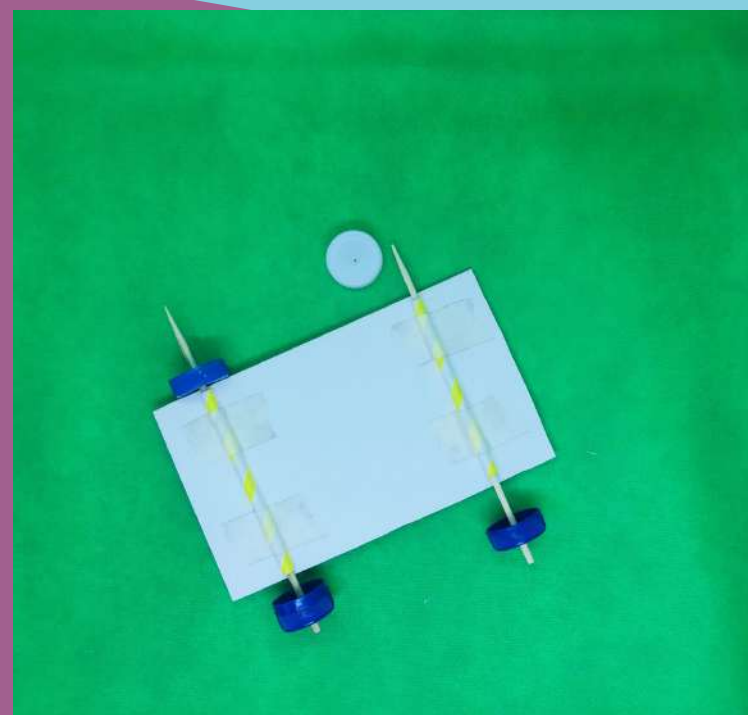
Step 3

Make holes in all four bottle caps using the food stick.



Step 4

Insert one bottle cap in each food stick.



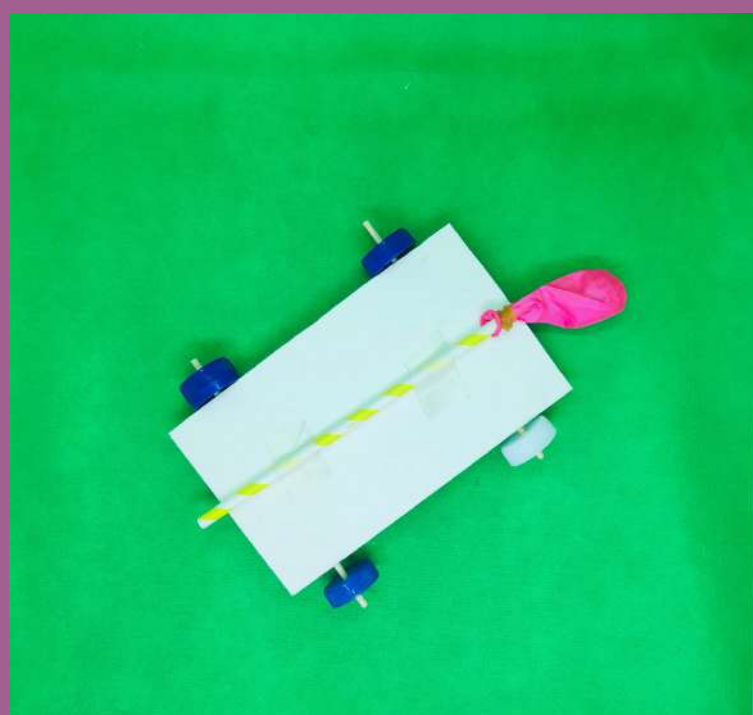
Step 5

Insert the food stick through the straw and insert the other bottle cap as well. Cut/break out the extra length of the food stick.



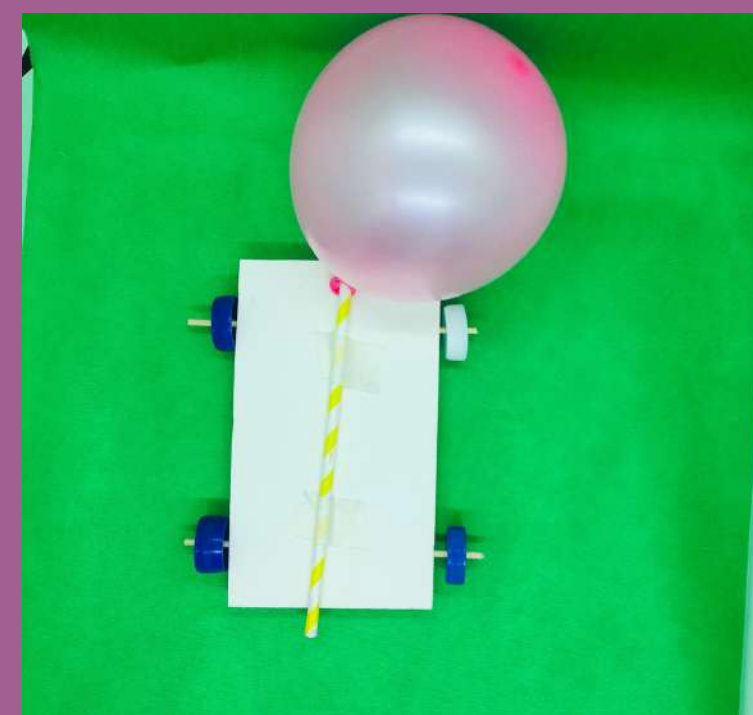
Step 6

Take a new straw and tie a balloon on one end using a rubber band.



Step 7

Attach the straw above the chassis in a way that you can still blow the balloon via a straw.



Congratulations!

Your balloon-powered car is ready. Now blow the balloon and leave the car on a smooth surface.

Challenge Your Skills

1. Decorate your car to make it look more attractive.
2. Experiment with alternative materials and different sizes of the balloon. Make note of your observation and share with your class.



Challenge Your Mind

1. The air in the balloon works like the fuel of this car and moves it forward. What other things can you use instead of an air balloon to move this car?
2. Why do you think the car moved using a balloon? Discuss with your friends the science behind this project.



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WORKSHEET



Make different changes in your balloon car and note down how its movement changes. Try different things like:



Use the sheet below to track your observations.

What change did you make?

What happened to the movement of the car?

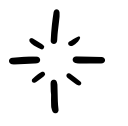
I used a longer balloon.

The car moved in a random pattern and stopped quickly.



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HANDOUT



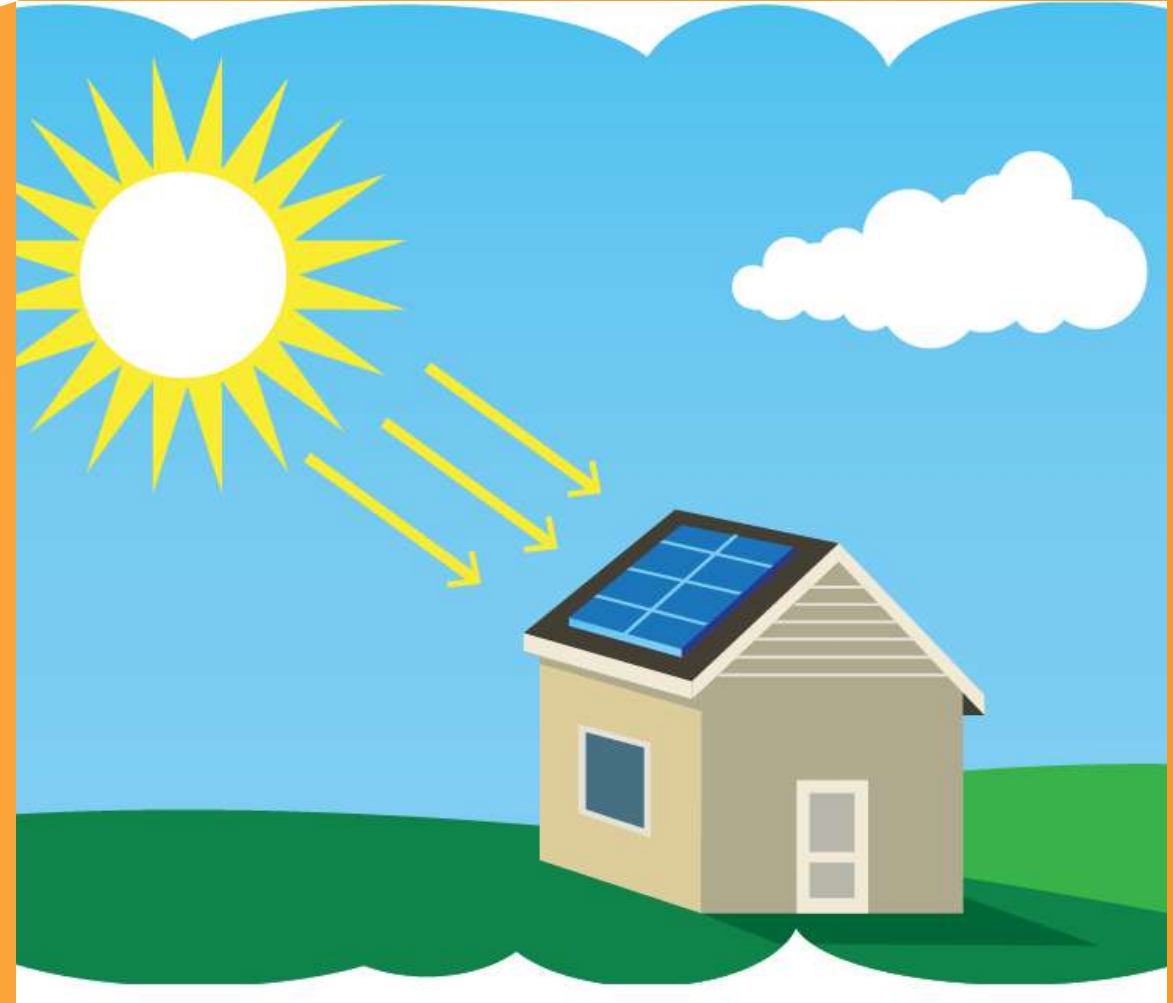
Different types of energy

Wind Energy



Wind power is energy, such as electricity, that is generated directly from the wind. People also use wind energy to run mills and pull water out of deep wells.

Solar Energy



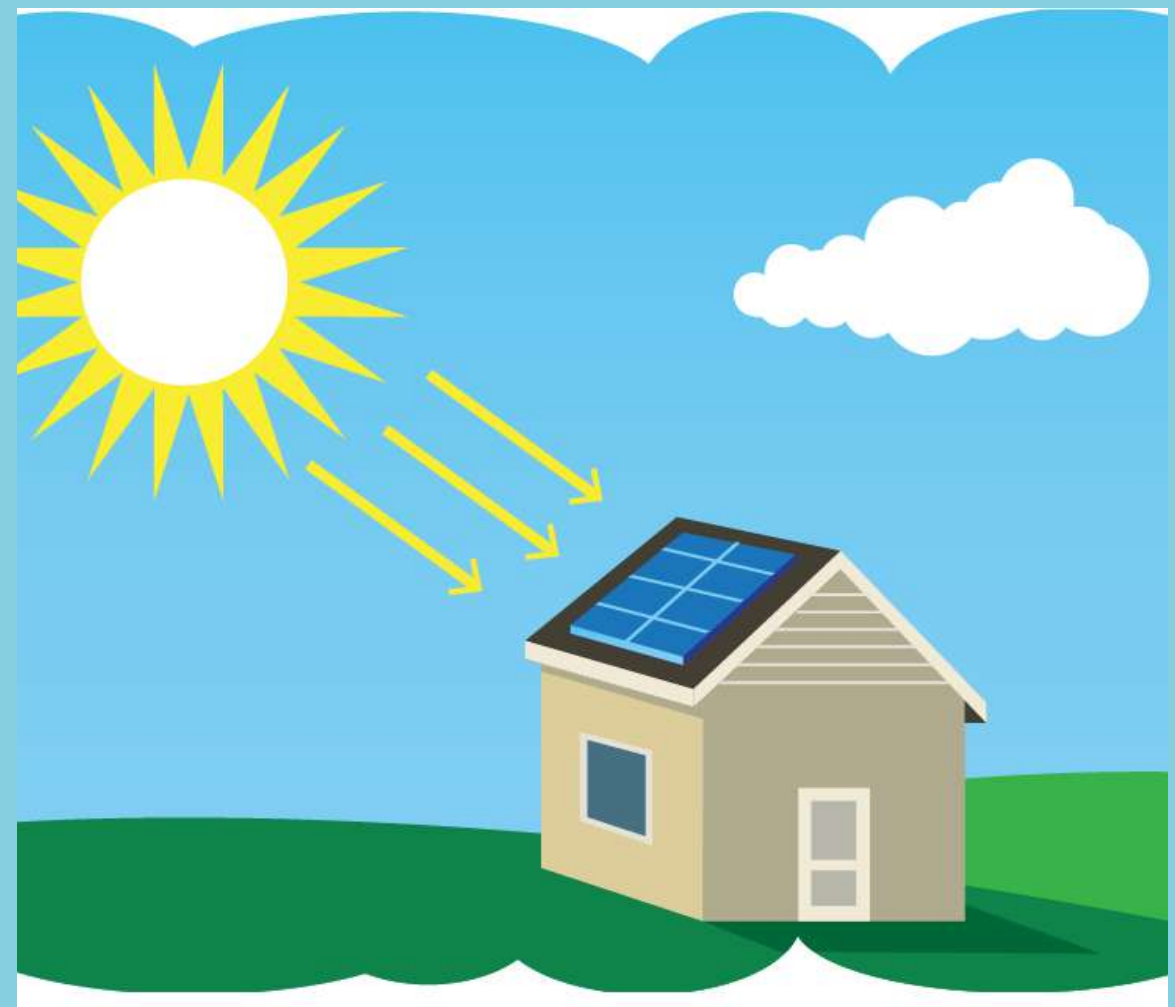
Solar energy is light, heat, and other forms of energy given off by the Sun. Solar energy can be collected and used to heat buildings and to make electricity.

Electrical energy



Electrical energy powers computers, phones, houses, industries. Today, electricity provides most of the energy to run the modern world.

Sound energy



Sound is an energy that we can hear. Sound energy moves in the form of vibrations.