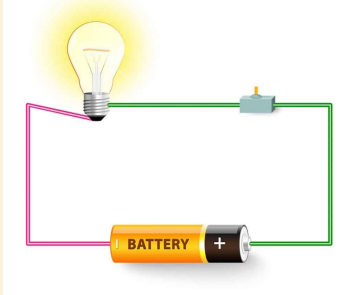
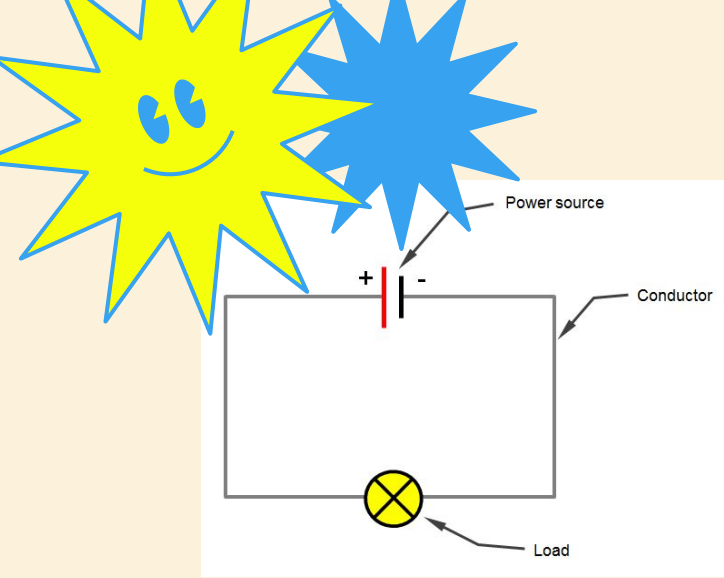


# More About the Solar Car

Ram  
Reddy





# Basic Circuits

Circuit: a never-ending looped pathway for transmitting electric current or electricity

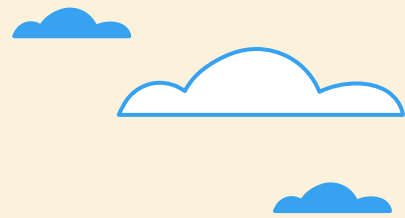
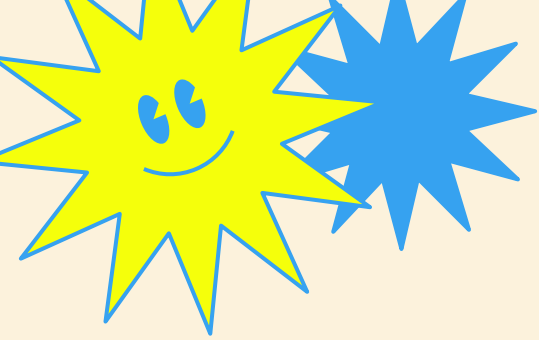
Think of it like a heart pumping blood

Must be complete and have a powersource, conductor and load.

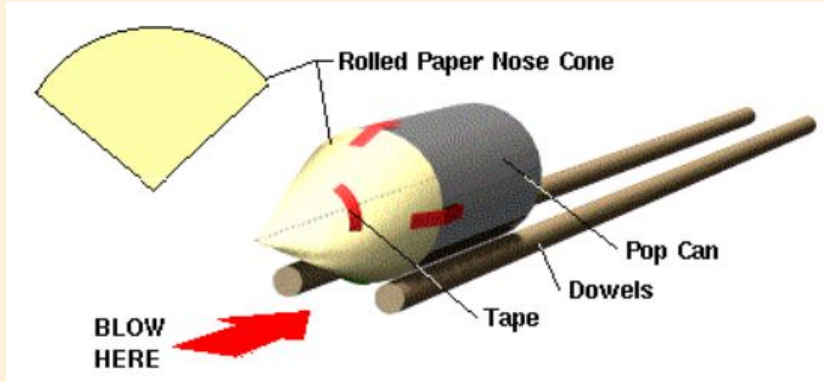
Switches: stop the flow of electricity

Can be either series or parallel





# Basic Aerodynamics



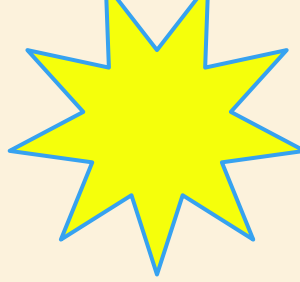
Is the vehicle aerodynamic?

This questions if the amount of drag (wind resistance) on the object is minimized with the design of the object.

Less surface area means the object has an easier time moving through the air.

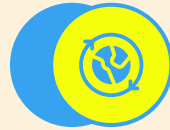


# Common Design Problems



## Friction

Is there too much friction?



## Motor

Does the motor output enough torque?



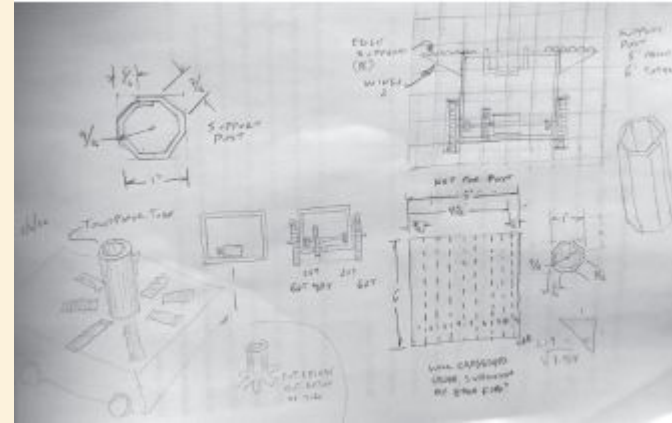
## SUN

Is the solar panel getting enough light?



## Structure

Does the car have enough structure?  
Is it too heavy?



# Resources On How To Build A Solar Car

**Video #1**



**Video #2**



**Slides**





# CHECKLIST FOR SOLAR CAR



Requirements	Solar Car
Cost of materials < \$50	<input checked="" type="checkbox"/>
No other energy source and max power is 3.2 W	<input checked="" type="checkbox"/>
1 motor for the car	<input checked="" type="checkbox"/>
Vehicle is structurally sound	<input checked="" type="checkbox"/>
30 cm wide by 60 cm long by 30 cm high	<input checked="" type="checkbox"/>





# PROJECT TIMELINE



Form teams

**Week 1**

Build the car

**Week 3**

Race day!

**June 25th**




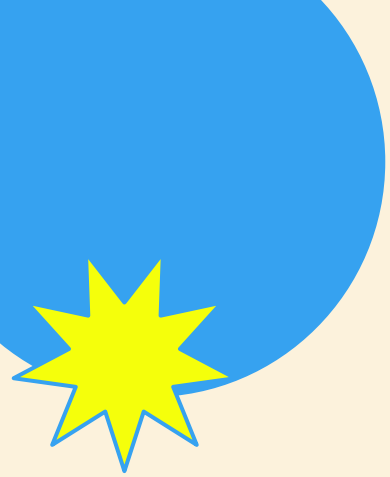
**Week 2**

Design the car and  
buy the components

**Week 4**

Test and improve the  
car for race day





**GOOD  
LUCK!**

