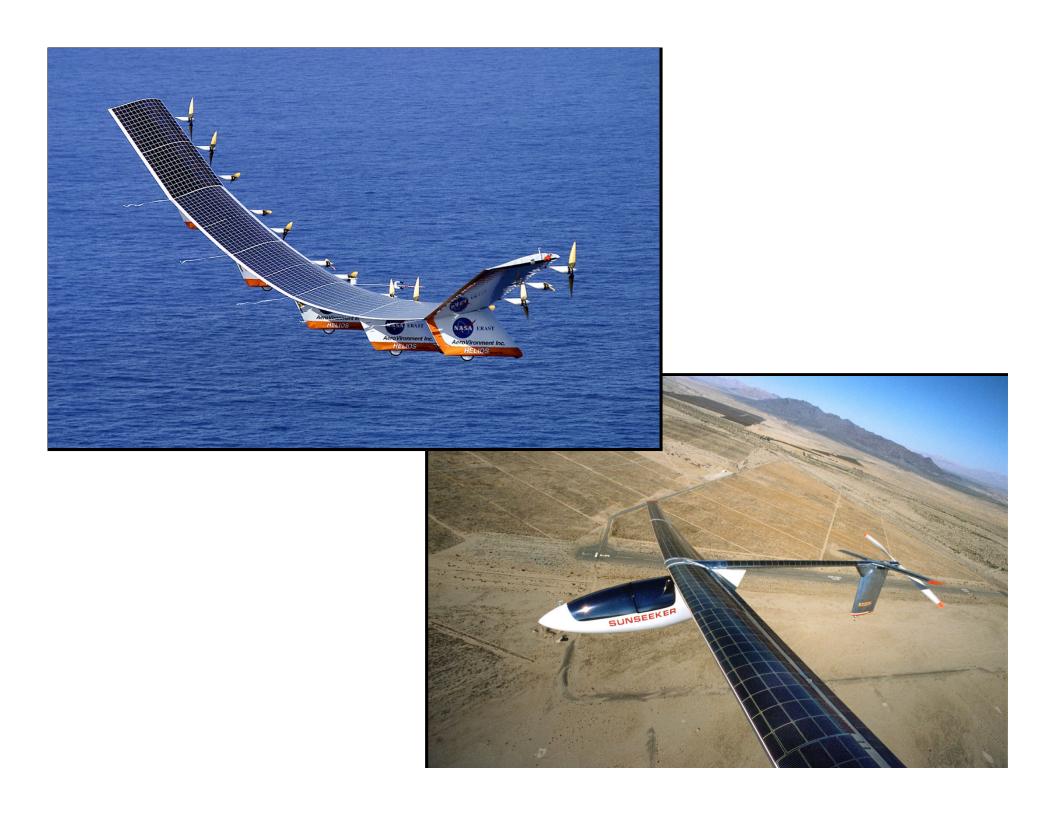


Solar Powered Race Cars!

Solar Powered Planes?



Challenge!

How fast of a solar powered car can you build?



How fast can you make your car go?

$$\frac{Force}{mass} = acceleration$$

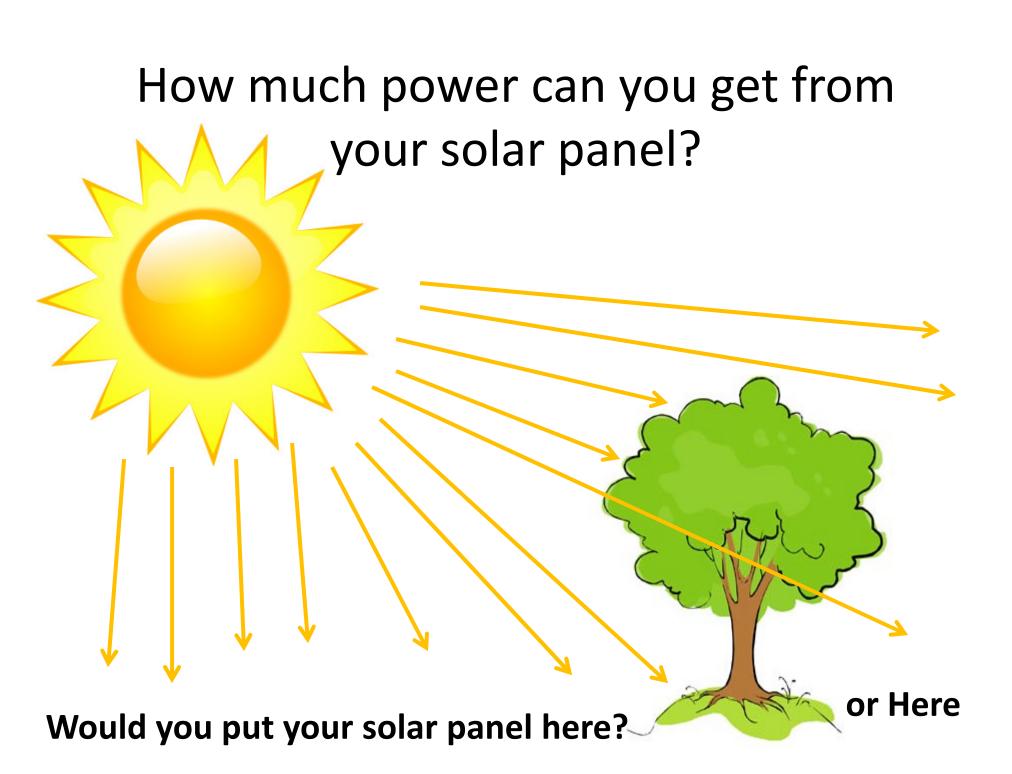
How quickly can your car accelerate?

Force: Sun → Solar Panel → Motor

Lots of Sunlight → Larger Force → Faster Car

Mass: How heavy is you car?

Lighter Car → Faster Car



What Slows Your Car Down?

Resistance!

Two Main Types...

Air Resistance & Rolling

Air Resistance

Is it easier to:

"CUT" through the air
or
"PUSH" through the air?

Rolling Resistance

If you spin your bike tire how long does it take

for it to come to a stop?



Materials

- 1 Solar Cell
- 1 Electric Motor
- Balsa Wood
- CardBoard
- Wheels, Gears and Axels
- Snippers, Files, Glue Gun