



.....Toys for Our Future!!

Go Green is a toy car company that is now introducing an ecological trash truck made up of recycled material and it's created especially for the children between 6-10 years kids. It is fun, educational and it's attractive to boys and girls. Our sponsor company is Honeywell, so we put a logo of our sponsor on the car. We named our product "Green Truck".



Our results of our customer research were 53% children wanted to climb a hill with a 30° slope. We interview 53% boys and 47% girls. They preferred the color green. And we choose an ecological theme because we wanted to give an example to the children and the importance of recycling. Meanwhile they are playing they may learn a lot about taking care of our planet and at the same time they will be having lots of fun.

The Green Truck can:

- Gear Ratio of 75:1
- Climb of slope of 30°
- Climb in 22 seconds a one meter course
- Has a velocity of 0.45 m/s
- Has a force of 1.5 Newtons
- Has a shovel to pick up TRASH, while it climbs the slope
- Has a solar panel to provide energy in case it runs out of gasoline

For the 75:1 we used: 2 – 75 teeth gear, 2 – 45 teeth gear and 2 -15 teeth gear.