

The Green Team

The Overall Description of the Project

Our team name "The Green Team" represents the world being a greener and healthier environment for the future. Also our team doesn't just represent us; it represents how the whole world has to pitch in work to help our environment change. Our car shows some of the littlest things that can make a large difference for the world.

The Design Drawings & Brief

Our gear ratio was a 1:3:1 because our car has four-wheel drive. The 15-tooth gear is attached to the motor. Two 45-tooth gears are attached to the two wheels. The 15-tooth gear spins against the two 45 tooth gears and moves our wheels. Our team decided to do a 4-wheel drive because 4 wheels spinning at once will increase the power of the car. Also our design drawing shows a brief summary of the car. Windows and lights are also shown in the design drawing.

The Consumer's Research

Our target was to all children from age 6 and higher. The survey given showed a child was interested in a police

car. So we decided our final project was going to be a cop car. Also for enjoyment we have added flashing red and blue lights, and a police siren with working front headlights are also fastened onto the vehicle.

Consumer research interpretation

On our police car we interpreted colors such as blue, red, green, black and white (just like our customer research showed). A large majority of the people wanted a fast car. This is also interpreted into the vehicle. Besides our customer research the green facts are also stated in the overall description and the green design sections.

Description of the test results

On our test results, we achieved a fast speed beating a time of 3 meters in 2.30 seconds. Also the body of the car was cut for a higher, faster speed. On many of our tests we concluded that 4-wheel drive is not the most efficient, but it is more moveable to get through and over obstacles.

Explanation of green design

Our green design shows a great model for a green toy car. First all the body work and felt used on the car is recycled. When we purchased the felt it came with an eco friendly sticker made from recycled fabrics. The light located on the back of the trunk is powered from all solar power. It will never run out of power unless the

light is shorted out. Also the material on the front windshield is made of recycled plastic. The front lights look as if they have no recycled purpose, but actually the batteries that power the lights are reused lithium watch batteries.