

~Premier~

We make you



Fostoria Middle School
Fostoria, Ohio, USA

Schuyler Turner
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Sayge Mason
Hannah Chambers

Premier's final project

For our final project we decided to make two covers for our car. The first cover is for boys. It is a red monster truck with flames on the hood and on the sides of the car. Our market research shows that boys would like to learn more about how the gears work, so we made the car sit high on the frame so boys can learn about how the gears work. The other cover is for girls. It is a light blue in color and has a dark purple stripe going down the top. On the sides it has some flowers and a peace sign. The girls we interviewed said that they really didn't care or want to learn about the gears so this cover covers the gears.

The gear ratio we decided to use is 225:1. We decided to do this because it can climb up a 30 degree slope and that is what our market research showed us our costumers said they wanted in a toy car.

How the car is green

For our project we did two covers. One cover is for the girls and one is for the boys. For the girl cover we used newspaper for paper mache. By using paper mache the newspapers have already been recycled once and they can be recycled again when the car is taken apart. It is also biodegradable. The paint we used was non-toxic and lead free. The spray paint propellant can was ozone safe. We used plastic that can be recycled for the boys cover. We also had a grill that connected to the front of the truck. It was also made out of plastic.

Description of cars

For our project we did two covers. The girl cover is a slug bug that is light blue with a dark purple stripe going down the middle on top of the car. This cover also has peace signs and different colored flowers on each side. The girl cover is made out of paper mache.

The second cover we made is for boys. It is a monster truck that is red and has yellow flames on the hood and on the sides. We also made a black grill for the front of the truck. The boy cover is made out of recycled plastic.

How we applied our market research

We applied our market research in our project by making it climb a hill. There were two more people that said they wanted a toy car to climb a hill, than to go fast. That is why we made it climb a 30 degree slope. Another way we applied our market research is by making a monster truck and a slug bug. We made those shapes because most girls said they wanted a slug bug and boys said they

wanted a monster truck. We chose the colors red, light blue, and purple because those were the top 3 colors everybody liked. The boys said they wanted to learn about how gears work, so we made the boys' car sit high on the frame so you can see the gears turning. The girls we interviewed said they didn't want to learn about gears so that cover hides the gears. By making two covers we think it would appeal to parents because they would have to buy only one frame and both boys and girls could play with it. This would save parents money and our market research showed us that parents wanted to save money.

Test Results

We decided to do the challenge of going up the 30 degree slope. We began with using a 25:1 gear ratio. It was able to climb the hill in 45 seconds. But when we added the weight of the body onto the frame, it couldn't meet the challenge, so we had to change to a 225:1 gear ratio. It may not seem very fast but it got up the hill.

Why MTI Should Choose Our Design

MTI should choose our design because it is the best. We made two covers, one for the boys and one for the girls, so the car will appeal to both boys and girls. We did what our market research said our customers wanted, we met the green challenge and it successfully did the 30 degree slope challenge. This is why MTI should choose our car.

Team Premier's Bio's

Schuyler Turner

My name is Schuyler Turner, and I go to Fostoria Middle School in Fostoria, Ohio. I am in the 7th grade, taking one 8th grade class, algebra. I am in a gifted class called GTE. Since I am in GTE I am in the Honeywell project. I am really enjoying the Honeywell project because you get to build your own car. I am currently playing football. I also love to play basketball and baseball. I also drag race. I race a Jr. Dragster that goes 85mph in 8 seconds in the quarter mile. When I get older I hope to be a baseball player and have my own custom toy car from this Honeywell project. I really hope that I win this Honeywell project because this is really important to me.

Dylan Weimerskirch

My name is Dylan Weimerskirch and I go to Fostoria middle school in Fostoria, Ohio. I am in the sixth grade and I take one seventh grade class, which is Pre-algebra. I am in the gifted and talented class. I am currently in a program called Team Leadership. So far being in this Honeywell Student Automotive Design Challenge has been great. I like to play computer and take apart electronics. In the future I would like to work at Google and come up with ideas for the web. I would really like to win this Honeywell project because that would be so awesome.

Sayge Mason

Hi, my name is Sayge Mason and I am a seventh grade student at the Fostoria Middle School. The reason I am here is because I am in the G/TE program and I chose to do the Honeywell project because I thought it would be cool to build a toy car. When I get older I would like to become a veterinarian or an artist. I would like to become a veterinarian because I love animals. I would also like to become an artist because I love to draw. It's one of my favorite hobbies.

Hannah Chambers

My name is Hannah Chambers. I am 14 years old and I'm in 8th grade. My favorite subject in school is Spanish. When I grow up I would like to travel the world. My hobbies are writing, volleyball, soccer, and listening to music. I am in G/TE, teen leadership, student council, yearbook, peer mediation, National Junior Honor Society, and the Honeywell project.