University Prep Science and Math High School

Name (To Be Determined)

High School Enterprise
2010-2011

Coach:
Mr. Ben Luster

Background:
University Prep Science and Math High School is a brand new school in Detroit that currently serves only 125 ninth grade students. High School Enterprise is run as an after school club which meets twice a week and contains 10 students, although numbers fluctuate weekly. The students in High School Enterprise are developing their engineering skills including: problem solving, applying math and science fundamentals and team collaboration. As a new school and club our primary focus is on recruiting members and determining projects.

Projects
High School Enterprise will be run as an authentic business. The club will have internal projects but will be open to helping other clubs and organizations at the school. The primary focus will be the design and construction of an autonomous Barbie Jeep. Students constructed the Barbie Jeep earlier in the year and are now determining the best way to fit the jeep with a GPS and ultrasonic sensors. The ultimate goal is that this jeep with navigate a pre-determined course during competitions and applications within Detroit.

Team Accomplishments (current year)
- Recruitment of team members
- Established a club constitution
- Established club logo
- Determined projects
- Constructed Barbie Jeep
- Assisted Green Growth Group with garden boxes
- Elected officials
**Concerns/Challenges**
Students need to determine which materials are most appropriate for the jeep. They need to purchase and attach the appliances but do not have the background knowledge to fully fulfill this task.

**Outreach**
Students are preparing to find ways to demonstrate their work to the local community. They plan to meet with parents and middle school students and share their expertise.

**Future**
Students will be purchasing materials, assembling the rest of the jeep and preparing for the Michigan Tech expo and the UofM expo.