Mini Innovative Vehicle Design- Racing!

WHERE STEM MEETS THE ROAD!
This project combines the excitement of high speed racing with technical analysis. Students start with a 1/10th scale off-the-shelf RC vehicle, conduct a series of performance tests, collect and analyze their data and then re-engineer it, with an emphasis on physics, programming, and tuning the vehicle for optimal performance along with skilled driving.

LEARN MORE AT
http://www.squareonenetwork.org/mini

STUDENTS SOLVING REAL-WORLD PROBLEMS
This project combines the excitement of high speed racing with technical analysis. Teams are challenged to add sensors demonstrating connectivity. Programming, telemetry, wiring, gear ratios, and suspension geometry combine to engage students in the engineering process while applying physics and mechatronics. Square One provides training, materials, project parameters, on-going support, budget and a premiere competition event as well as exposure to career pathways in the mobility industry.

TEAMWORK & SOFT SKILLS
Students work collaboratively toward the project's solution, managing timeline, budget, and public speaking.

CREATIVITY
Square One offers resources and connections; students decide what they want their project to look like. Missions are open ended with more than one "right answer."

INNOVATION
Student teams design, build, test, modify and re-engineer an innovative solution.

SKILLS
Students apply skills they've learned in class, critical thinking, and problem solving.

IDEAS
Students advocate their ideas to integrate features while setting targets for success.

SAFETY
Student teams are given strict guidelines for safety considerations within project parameters, gaining useful lifelong skills.

COMPLETE FIRST YEAR PROJECT COST: $2,000

WHAT YOU GET:
- Hands on teacher/student training, including SCECHs
- Starter kit (includes the vehicle!)
- Classroom curriculum
- Entry fee for challenge competition
- Ongoing technical support
- Exposure to industry career pathways

TO SIGN UP TO MOBILIZE STEM IN YOUR CLASSROOM, EMAIL US HERE:
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