Underwater Innovative Vehicle Design

WHERE STEM MEETS UNDERWATER MOBILITY!

Underwater Remotely Operated Vehicles provide an innovative platform from which to teach applied science and engineering concepts, including environmental studies. In this design challenge student teams will utilize this new landscape to accomplish underwater missions.

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

STUDENTS SOLVING REAL-WORLD PROBLEMS

Following a two-day “modeling” professional development workshop, teachers will share their knowledge and skills to actively engage students in real world, project based learning. The materials (camera, motors, wiring harness) used in the workshop can be recycled for use year after year. Square One provides training, materials, project parameters, on-going support, and a premiere competition event.

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: $1,270

WHAT YOU GET:
- Two-day teacher training for up to three teachers, including SCECHs
- Classroom curriculum
- Materials for a fully functional UROV including optic and power systems
- Entry fee for challenge competition
- On-going technical support

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