



FLL Team Information Sheet

FLL Team Number 1

Team Name: TechBrick Tacticians

Abingdon, Maryland



www.TechBrick.com



2009



FIRST LEGO League

School Affiliation: New Covenant Christian Academy

Team & Mentors	Our Robot	Team Picture
Doug Nate Jonathan Cole Ollie Ryan Alie Caitlin Andrei Nathan Marco Debbie Barb KC Amy		

Robot Design Information	Research Project Information
<p>After the Maryland tournament we decided to build a brand new robot. We studied our first robot and its attachments. We took the best parts and incorporated them into our new design. Many of the attachment were built onto the robot to minimize time in base. The robot was built with dual light sensors to help it accurately get around the field. It was also built with a simple and reliable find agreement devise that works on any variation. We designed a detachable plow and several inlays that slide into the plow and are left behind after the mission is complete. The arm has the ability to cover and hold anything inside the plow. The arm also has many long prongs on the front that can lift the buoy, ice core, drilling rig and flood gate. A touch sensor is used to run the programs.</p>	<p>The TechBrick Tacticians play outdoor sports. They appreciate the fields being very green and well maintained but are concerned now that they know they are highly fertilized and polluting the bay. They visited Meadowood Recreation Facility to observe how they have reduced runoff by buffer zones and rain gardens. There, they did their own stream testing to determine how clean the stream was from an entomology approach. They met with a climatologist and a physicist that gave them further in site to their research project. The team also spent the day on the Chesapeake Bay on the Lady Maryland, a 104' schooner, with a team of scientists learning about how plankton, oysters, crabs and sea life are changing. They had a hands on lesson about runoff and had the opportunity to do some navigating, boat building and even hoisted the sails.</p>

Teamwork Information	Fun Facts About Our Team
<p>"It takes patience to teach the new or younger members of the team"</p> <p>"One person can't do everything"</p> <p>"Even the quietest people have good ideas"</p> <p>"I had no idea you could determine how clean a stream is by what bugs live in it. When our team did the entomology study, we each had a job, and needed to help each other. Sometimes it was to identify something or to help someone get out of the mud! We put all of our efforts and data together and came up with the answer to a big question."</p> <p>"It is huge challenge to maximize each child's strengths and diminish their weaknesses. It teaches many real-world relational lessons within the team."</p>	<ul style="list-style-type: none"> * 2 sets of siblings * All homeschooled * Mix of new and experienced members * Kids from grade 3-8 * The day we went to Meadowood Regional Park with our team to do our entomology study, it was raining. We had so much fun getting dirty and wet, looking for and identifying bugs. * I never knew which end of a leech is the mouth! * When we went on the Lady Maryland boat trip I couldn't believe I could learn how to hold a jelly fish and not get stung. I can't wait for the summer when I can surprise my friends! * Two of our 11 year olds are in their 4th year of FLL * One of our students was in the first JrFLL expo.





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