Before the Water Runs Out: Educating Children

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Water Scarcity

By 2025, 40% of the world’s population will be living with water scarcity. Today’s children will be responsible for solving the water problems of the future.

Accomplishments

- Applied for and received a $4,000 grant to build rainwater harvesting system
- Wrote seven lesson plans and taught three of them to sixth grade classes
- Assessed students’ growth using pre and post evaluation surveys
- Created a website to share our lesson plans. Visit us using this QR Code or at: users.wpi.edu/~psmith2

Can you do a better job conserving water?

<table>
<thead>
<tr>
<th>Student Response in %</th>
<th>Pre Evaluation</th>
<th>Post Evaluation</th>
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</thead>
<tbody>
<tr>
<td>Yes</td>
<td>25</td>
<td>78</td>
</tr>
<tr>
<td>No</td>
<td>75</td>
<td>22</td>
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Future Goals

- Implement last four lessons at Tatnuck Magnet School
- Collaborate with Engineers Without Borders-USA WPI to build a rainwater harvesting system
- Improve garden and build rainwater harvesting system

Project Goals

- Develop a curriculum to educate students on water sustainability and engineering solutions
- Develop method for evaluating effectiveness of curriculum
- Fundraise for a rainwater harvesting system at Tatnuck Magnet School