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.

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

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

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

Can you do a better job conserving water?

<table>
<thead>
<tr>
<th>Student Response</th>
<th>100</th>
<th>80</th>
<th>60</th>
<th>40</th>
<th>20</th>
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<tbody>
<tr>
<td>Pre Evaluation</td>
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<td>78</td>
<td>75</td>
<td>22</td>
<td></td>
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<tr>
<td>Post Evaluation</td>
<td>22</td>
<td>78</td>
<td>75</td>
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</tbody>
</table>

In %
Yes
No