What if…

teacher education programs and P12 schools spoke a shared language that focused on student learning?
What if…

outstanding candidates who looked like the children in Bronx schools were given the financial resources they needed to concentrate on an intensive course of study that combined graduate level course work and immersion in a partnership elementary school?

Admission Requirements

- A cumulative grade point average of 3.25 for all undergraduate coursework from all academic institutions attended.

- Two letters of recommendation

- An interview with MATH-UP program personnel and an interview in Spanish for students who will be taking the bilingual extension

- A math competency exam, a writing sample, and a Spanish writing sample (for students who will be taking the bilingual extension).
Cohort One: Candidate Demographics

19 Females; 1 Male

69% Attended New York City Schools

Ethnicity

- Hispanic or Latino: 77%
- Asian: 6%
- White: 6%
- Black or African American: 12%
What if…

teacher education established partnerships that led to simultaneous reform of preparation programs and schools?

Our Partner Schools

- P.S. 1  JORGE PERDOMO, PRINCIPAL
- P.S. 55  LUIS TORRES, PRINCIPAL
- P.S. 58  VELMA GUNN, PRINCIPAL
- P.S. 73  JEAN MIRVIL, PRINCIPAL
- P.S. 114 OLIVIA FRANCIS-WEBBER, PRINCIPAL
What if... teacher education program design was based on identified community needs?

Children with Special Needs

- Autism
- Delay
- Disability
- PDD
- Impaired
- Disabled
- Needs
- Learning

English Language Learners

- Syndrome
- ADD
- Developmental
- Challenged
- Aspergers
- Fragile
- Physically
- Visually
- ADHD
What if performance assessment was at the center of clinical training for candidates and an essential part of classroom instruction?

For Candidates

- Videotape #1 Baseline Lesson
- Videotape #2 Formal Assessment
- Videotape #3 Continuous Improvement

For Children

- Keeping Learning on Track (KLT) is a sustained, interactive professional development program that supports teachers to adopt minute-to-minute and day-by-day assessment for learning (AfL) strategies.

- The ETS Math Challenges (MC) are age and grade appropriate constructed-response tasks with multiple steps that cover key mathematical skills or concepts aligned with common core curriculum standards.
What if... special attention was paid to mathematics in order to ensure that elementary youngsters have the skills necessary to enter the STEM pipeline?

- Two mathematics methods courses
- Practicum in mathematics remediation
Indicators of Success

Summary of Responses to the Question: Compared with how you felt prior to the Summer Mathematics Institute, how would you describe your current comfort level in your role as a teacher of elementary school mathematics?

<table>
<thead>
<tr>
<th>Comfort Level</th>
<th>Cooperating Teachers</th>
<th>Pre-Service Teachers</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Number</td>
<td>%</td>
</tr>
<tr>
<td>Less Comfortable</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>About the Same</td>
<td>5</td>
<td>22.7</td>
</tr>
<tr>
<td>More Knowledgeable</td>
<td>15</td>
<td>78.2</td>
</tr>
<tr>
<td>Not Applicable</td>
<td>2</td>
<td>9.1</td>
</tr>
<tr>
<td></td>
<td>22</td>
<td>100%</td>
</tr>
</tbody>
</table>

Knowledge Ratings at the End of the 2011 Summer Institute

<table>
<thead>
<tr>
<th>Item</th>
<th>Cooperating Teachers</th>
<th>Pre-Service Teachers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Keeping Learning on Track</td>
<td>90.4%</td>
<td>75%</td>
</tr>
<tr>
<td>Assessment for Learning Techniques</td>
<td>85.6%</td>
<td>75%</td>
</tr>
<tr>
<td>Using Math Challenges in the Classroom</td>
<td>85.7%</td>
<td>60%</td>
</tr>
<tr>
<td>Pedagogical Decisions</td>
<td>86.4%</td>
<td>45%</td>
</tr>
</tbody>
</table>
## Scaling Up: Challenges

<table>
<thead>
<tr>
<th>Resources</th>
<th>Affordability</th>
</tr>
</thead>
<tbody>
<tr>
<td>Time</td>
<td>Scholarships</td>
</tr>
<tr>
<td>Reward Structures</td>
<td>Forgivable Loans</td>
</tr>
<tr>
<td>Technology</td>
<td></td>
</tr>
</tbody>
</table>
Our Partners

Research for Better Schools

BRONXNET

NYC Department of Education

Dennis M. Walcott, Chancellor

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U.S. Department of Education

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- Arlene Weinstein, Project Director
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- Cecilia Espinosa
- Anne Marie Marshall
- Laura Roberts
- Victoria Rodriguez