

A photograph of three young students in a classroom. In the foreground, a boy and a girl are looking intently at a tablet held by the boy. They are both wearing dark blue zip-up jackets. The boy on the left is wearing a light green polo shirt. In the background, other students are visible, some wearing yellow shirts. The scene is brightly lit, suggesting a classroom environment.

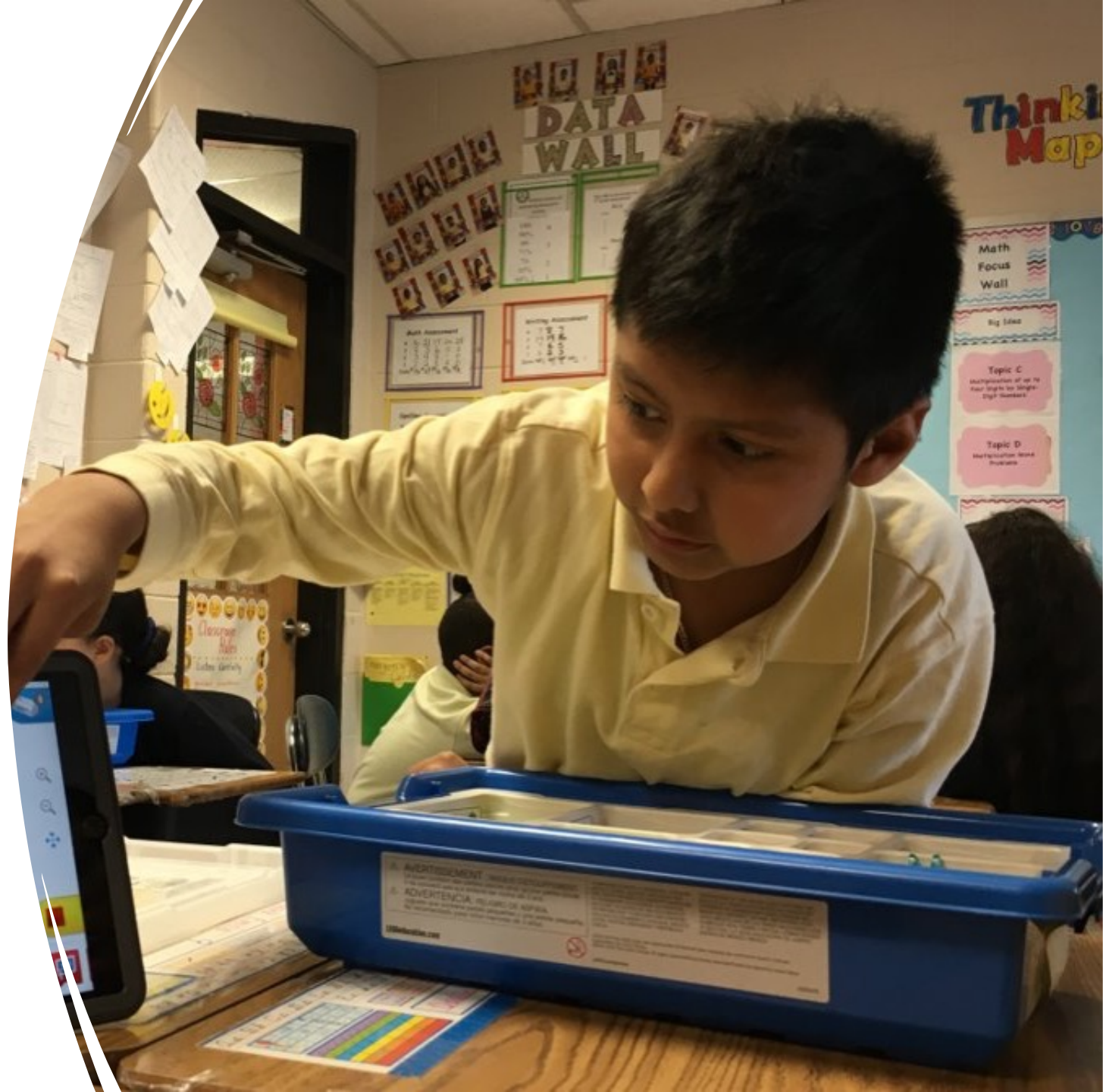
Measures of success

The Yonkers Engineering Initiative

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Participation and Goals

- The grant was written to include 4 Yonkers Public Schools and 5 nonpublic schools within the City of Yonkers
- The grant targeted 2nd-5th graders
- Weekly enrichment classes of 90-120 minutes with the goal of integration into regular classes
- The promotion of STEM (Science, Technology, Engineering, Math) through inquiry-based instruction and projects.
- Ongoing professional development of educators in the program on STEM skills and competencies and ways to effectively integrate them into classroom instruction.



The Shift to Remote Instruction

- Required collaboration and increased partnerships with our LTG schools.
- Moved to using the Zoom platform, easily accessible for all users.
- Shifted to a fully online coding program (CoderZ) that was easy to access, provided engineering challenges and a customized classroom set up.



Measurable Results

All 9 schools continued in the Yonkers Engineering Initiative throughout the 3 years – and requested to be in the new application.

We met our goal of developing the program to meet the goals of 2nd-5th graders. We were able to in

The classes shifted from fully in-person to virtual and were extremely well attended. The increased technology made this possible.

STEM projects and instruction was observed in each of our schools when students returned to hybrid and full week. Visits to several of our partner schools also saw the integration of skills, content, and technology.

Professional development with our facilitators continued online and additional professional learning opportunities were able to be conducted because of the increased virtual environment.

Feedback from our public and nonpublic school participants (principals, teachers, students).