New Classrooms
Innovation Partners for Learning

CAMPAIGN FOR MATH AS A DRIVER OF EDUCATIONAL EQUITY

FOCUS AREA:

Teach to One Roadmaps Plus

The New Classrooms Campaign

For decades, students' inability to keep pace with middle and high school math standards has been a systemic national problem. New Classrooms leadership—many of whom are former math teachers, principals, district administrators, and public officials—has witnessed personally the painful ways in which a lock-step focus on age-based standardized instruction for all students has inadvertently served as a social sorting mechanism. This is especially true for Black, Latino, and low-income students who fall behind early in their educational journey and are rarely afforded a real opportunity to catch up. And because jobs requiring science, technology, engineering, and math (STEM) are amongst the fastest growing and highest-paying sectors in our economy, our national inability to squarely address these educational inequities has readily converted into broader, societal inequities.

Covid-19 has made this problem even worse. Not only has the virus itself disproportionately and directly impacted communities of color, but disparities in access to technological devices and Internet connectivity have resulted in students falling even further—and dangerously—behind. Schools were ill equipped to meet educational disparities *before* Covid-19, and their capacities have only been further diminished.

In 2019, New Classrooms launched *Math as a Driver of Educational Equity*, a five-year capital campaign focused on transforming the way in which students are taught math as a means to attaining educational equity. The organization recently modified its strategy in response to Covid-19 to address the near-term crises stemming from learning loss and remote instruction.

A Digital Tool to Enable Each Student to Access Tailored Acceleration

A New Context

The Covid-19 crisis has challenged our nation's educational systems in countless ways. From the critical loss of instructional time because of school closures, to the lack of readiness in implementing remote learning measures, schools' ability to successfully prepare students for the rigor of high school and beyond has been significantly altered.

The impact of the profound learning losses resulting from the crisis is especially acute in math, where experts estimate that students will return nearly a full year behind what would have happened under normal circumstances. Because math is cumulative, these losses can make it harder for students to progress further.

New Classrooms has drawn on its decade of engaging in research and development (R&D) into the way students learn math to build a solution that can help schools and teachers around the country mitigate the effects of learning loss. This solution, called

Teach to One Roadmaps Plus, empowers each student with their unique, personalized academic roadmap towards math proficiency. *Roadmaps Plus* represents a first-of-its-kind opportunity for students and teachers to understand, at the skill level, the precise math concepts and skills they should master to achieve college and career readiness. Most importantly, it provides each student with content and on-demand assessments aligned to their roadmaps, and adapts continuously based on their progress, enabling students to accelerate on their individualized pathway to proficiency.

Key Features

Students' personalized roadmaps are powered by a unique diagnostic assessment that uses state-of-the-art psychometric techniques and algorithms to diagnose each student's unique learning gaps in math. In this way, students can follow a pathway created just for them: a unique blend of on-grade skills and building blocks from previous years. *Roadmaps Plus* enables students to accelerate towards different destinations depending on their needs or preferences. Students can work towards reaching college and career readiness—as defined by Algebra I proficiency and its predecessor skills—or towards reaching grade-level expectations for their enrolled grade (4th through 8th). By focusing on the most critical skills each student should prioritize, we can enable students to address their learning loss efficiently and joyfully.

To progress through their roadmaps, students access high-quality lessons that were carefully selected and curated from close to 200 content providers. Once students complete each lesson, or when they feel they have mastered a particular skill, they take a short, formative assessment to check their learning. The roadmap updates automatically based on these results, reflecting students' progress in real time.

Roadmaps Plus makes student data visible and actionable for educators. Teachers have access to detailed reporting so they know where each student is on his or her learning journey. Teachers can continually understand at the skill level each of their students' strengths and needs so they can better support their learning.

Affordability and Flexibility

This solution is both affordable and flexible in meeting schools' unique circumstances. *Roadmaps Plus* may be used as a supplemental program for schools that maintain a grade-level focus in their core math curriculum. The program could also serve as a powerful homework tool, allowing students to fill pre-grade gaps on their own time. Schools could select to use *Roadmaps Plus* as their core math curriculum, so teachers can focus on each student's prioritized learning needs. In every scenario, schools can benefit from this solution whether students learn at home, in the classroom, or move from one environment to another. Schools can adopt *Roadmaps Plus* for $15 per student annually.

Call to Action

As part of its Campaign *Math as a Driver of Educational Equity*, New Classrooms has made *Roadmaps Plus* available to any school across the country starting in September 2020. Over the coming year, we will continue to improve upon this first release. For instance we expect to make refinements to the diagnostic assessment and algorithms that power the roadmaps, as well as to improve the user experience for both students and teachers. Investing in this solution can help address today's unique challenges. We invite you to join us in making this important investment in the future of our students to ensure they can reach proficiency and beyond.

Budget

TTO Roadmaps Plus	FY20	FY21	FY22	FY23	FY24	Total
Enterprise Technology	–	201	166	150	152	**670**
Program Advancement	–	249	64	102	62	**479**
Open Educational Resources	–	–	–	–	–	**–**
Interim Technology	–	151	46	20	-	**218**
Legacy System Innovation	–	-	-	-	-	**–**
General & Administrative - R&D	–	103	36	39	35	**213**
R&D and Scalable Technology	**–**	**704**	**313**	**312**	**249**	**1,579**
Support for Early Adopters	**–**	**592**	**160**	**219**	**236**	**1,208**
Policy, Advocacy and Growth Strategy	**–**	**181**	**64**	**67**	**78**	**389**
Total TTO Roadmaps Plus	**–**	**1,477**	**537**	**598**	**564**	**3,176**