Rowan Salisbury
Mathspace Pilot Study Brief

Product Info

Product Name: Mathspace

Product Description: Mathspace is a web-based math program that features student-led and teacher-assigned questions, videos and lessons, a hint button to assist students in solving problems, and an interactive writing feature that enables students to write "on-screen."

Learning Focus: A supplemental or core curricular adaptive math tool for students in grades 5-12

Teacher Training: Offered via webinar

Student Usage Minimum: Teachers assign tasks to students at least three times per week

Device Specifications: Web-based app; requires login and Internet access

Cost: $20 per student

District Context

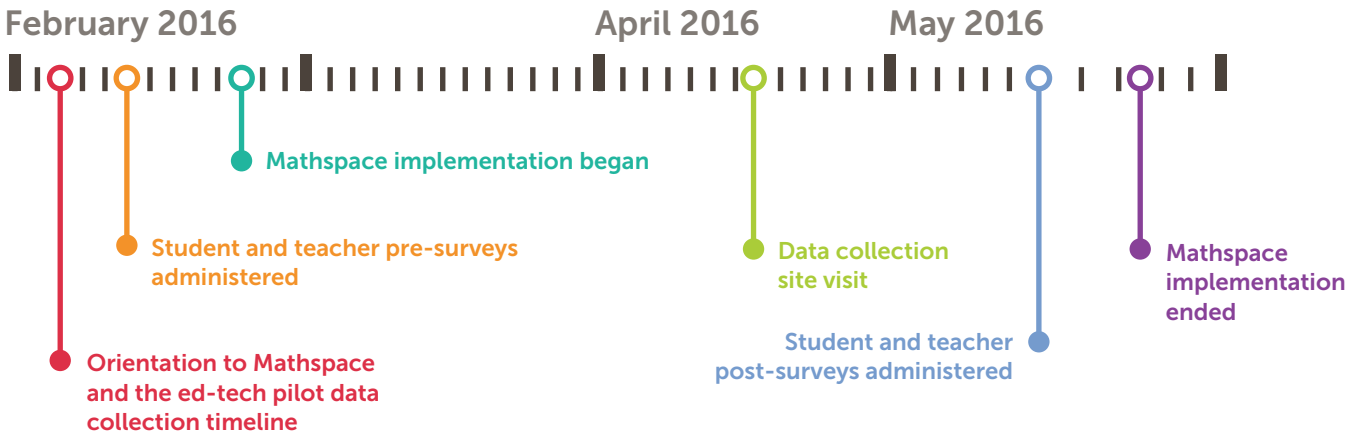
District demographics: Rowan Salisbury, located in North Carolina, is comprised of 35 schools that serve approximately 20,000 students.

Pilot demographics: Nearly 4,200 students participated in piloting Mathspace in seven middle schools. Student learning benchmark data were only available from four of the seven schools: China Grove, Corriher Lipe, Southeast, and West Rowan, exclusively (2,207 students).

Number of Students in Pilot	Number of Teachers in Pilot	% Free or Reduced Lunch	Speak English at Home	Grade Levels in Pilot	K-12 Students with Access to a Device (1:1)	Students with Access to High Speed Broadband at School
4,197	76	66%	94.5%	6th - 8th	100%	100%

Pilot Implementation

Pilot Goal: District leaders sought a tool that would increase student mathematical skills and close gaps in achievement. The majority of teachers from Rowan-Salisbury indicated they wanted to use Mathspace as a supplementary tool to give students more opportunities to practice math.



Implementation Model: Mathspace implementation in Rowan Salisbury varied dramatically across schools and classrooms, but the majority of pilot teachers did not meet the product developer's recommended implementation threshold.

Data collected: Student pre- and post-surveys, teacher pre- and post-surveys, teacher interviews, school leader interviews, product usage data (provided by Mathspace), and student pre- and post- learning/ benchmark assessments.

Findings

Quality of Support: Mathspace offered initial professional development to Rowan Salisbury school-based technology facilitators, and support was available throughout the pilot via online chats. Technology facilitators then trained teachers in how to use the tool. Many teachers felt they could benefit from additional professional support in integrating Mathspace into their practice as a supplementary learning tool.

Educator engagement: Of the teachers who used Mathspace, feedback was overwhelmingly positive.

Educator satisfaction: Teachers from Rowan Salisbury felt that Mathspace met their expectations by providing individualized student feedback, which allowed them to use the product as a supplementary tool.

Student engagement: Highly engaged and motivated students had very positive feedback about Mathspace, but those who lacked motivation and confidence in math were discouraged by the format of the problems and the rigorous content.

Student satisfaction: Classroom implementation models that focused on differentiating instruction and allowed students opportunities to collaborate with each other yielded the most positive student feedback.

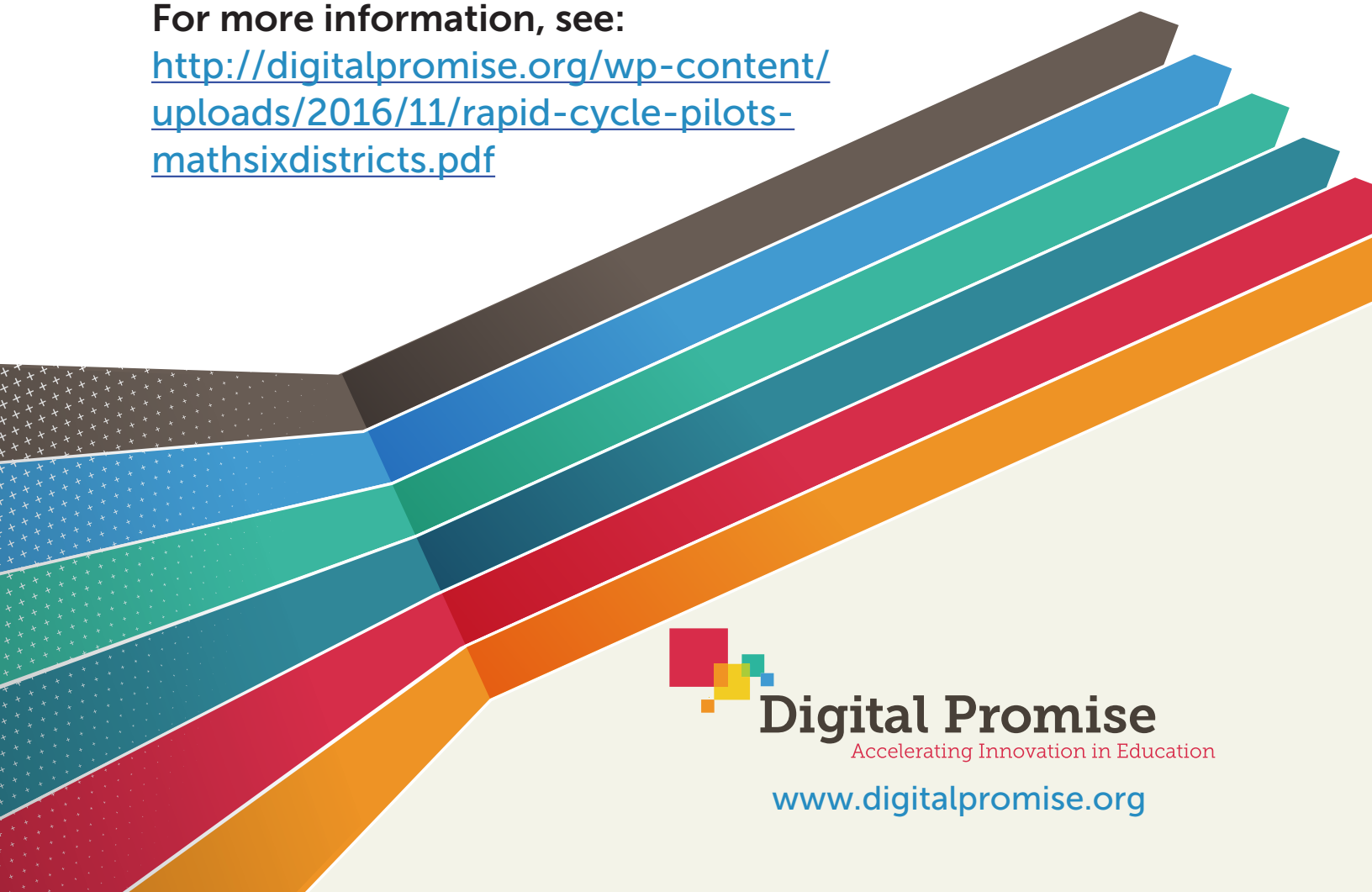
Student learning:

District	Change in Benchmark Data
Rowan Salisbury - China Grove	0.9% increase
Rowan Salisbury - Corriher Lipe	No change
Rowan Salisbury - Southeast	0.5% increase (statistically significant)
Rowan Salisbury - West Rowan	0.2% decrease

Outcome

Purchasing Decision: Rowan Salisbury chose to purchase Mathspace for district-wide use, largely because of the quality support they received from Mathspace and positive student and teacher feedback.

For more information, see:
http://digitalpromise.org/wp-content/uploads/2016/11/rapid-cycle-pilots-mathsixdistricts.pdf



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