+ Supplemental

Grades PreK–Geometry

imagine math®

Imagine Math® Logic Model

Imagine Math has a well-specified theory of action that explains how the intervention is likely to improve learning outcomes. The logic model describes Imagine Math's inputs, activities, and desired outcomes.

The model outlines the resources (e.g., devices, teacher buy-in) needed to effectively implement this solution (e.g., 2–3 lessons per week, offline resources) to produce outputs that lead to short-term (e.g., increased engagement, growth on Benchmark Tests) and long-term outcomes (e.g., increased mathematics proficiency on state standardized tests, self-confidence).

Program Inputs

Imagine Math

- Research-based, standards-aligned supplemental program to provide meaningfvul practice and promotes mastery of grade-level content
- Scaffolded support and informative feedback to make learning accessible for all students
- Embedded motivation system to engage learners and encourages perseverance
- Diagnostic Benchmark Tests for placement and ongoing formative assessments for progress monitoring
- Actionable reports that drive instruction for a whole class or individual students
- Flexible model for delivery
- Professional development, training, and support

District

- Access to Imagine Math instructional content via site license
- Technology: networked computers or mobile devices, headsets, and supporting hardware and software
- School and district infrastructure to support technology use
- Teacher buy-in and readiness to adopt technology
- School implementation plan
- School or district learning goals

Classroom Activities

Student activities

- Spend at least 45 minutes (or 2–3 lessons) per week (PreK–Grade 2)*
- Spend 60–90 minutes (or 2–3 lessons) per week (Grade 3–High School)†
- Pass 30 lessons before the end of the school year
- Engage in offline resources
  - Printable worksheets*
  - Printable worksheets; Application Tasks; Journaling Pages†

Teacher activities

- Implement blended learning model(s): whole-class instruction, computer lab, in-class rotation, intervention, extended learning (at-home, after school, summer school, etc.)
- Use actionable data to monitor student progress and plan for differentiated instruction

Outputs

Tracked in Imagine Math data reports:

Implementation Metrics

- Number of districts, schools, students, and teachers

Progress Metrics

- Number of lessons completed
- Number of problems completed
- Percent of tokens earned*
- Number of Math Helps† used
- Number of Live Help Sessions† used

Student Usage

- Number of total students using or enrolled
- Number of active students using Imagine Math at school and/or at home
- Average student usage, percentage of goal

Student Progress Lessons

- Average weekly math time
- Number of lessons completed
- Number of lessons passed

Student Progress Assessments

- Number of assessments completed
- Quantile® measure
- Student performance level, percentile rank, and instructional grade level

Outcomes

Short-Term Outcomes

- Students exhibit increased engagement as measured by usage of and progress through Imagine Math
- Students increase mathematics proficiency as evidenced by their performance on Imagine Math assessments

Long-Term Outcomes

- Students increase mathematics proficiency on nationally normed or standardized assessments
- Students increase academic achievement in other subject areas
- Students develop motivation, self-efficacy, and self-confidence to learn mathematics
- Teacher Outcomes:
- Teachers feel prepared to implement Imagine Math in their classrooms
- Teachers build understanding of students' mathematical thinking

* Specific to the PreK–Grade 2 grade learning environment.
† Specific to the Grade 3–High School learning environment.

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