Core Curriculum | Grades K–12

imagine learning | Illustrative Mathematics LEARN MATH FOR LIFE

Imagine Learning Illustrative Mathematics Logic Model

Imagine Learning Illustrative Mathematics (IM) is a K–12 problem-based mathematics curriculum that is designed to support conceptual understanding, procedural fluency, strategic competence, adaptive reasoning, and a productive disposition. There is a focused, rigorous, and coherent progression across each Unit, Lesson, and Activity that begins with an inclusive invitation to the mathematics, followed by a deep study of concepts and procedures, and concluding with opportunities to consolidate, synthesize, and apply. Imagine Learning IM offers print and digital resources, allowing schools to customize their experience with the curriculum.

The logic model below provides a conceptual model of how Imagine Learning IM is intended to work, the resources required to make it effective, and the outcomes that teachers can expect students to demonstrate.

Program Inputs

Imagine Learning Illustrative Mathematics

- Blended use model including interactive digital and print materials
- An engaging digital student experience that allows students to participate in whole-group instruction, small-group instruction, independent work, and digital assignments
- Consistent structure across units, lessons, and activities that reduces cognitive load for students and teachers
- Flexible and customizable lessons plans and assessments in print or digital format. These include assessments, practice problems, cool downs, centers (for Grades K–5), and tasks
- Live Learn feature available for synchronous virtual instruction with the whole class with the option to assign asynchronous materials. While in Live Learn, real time data and reporting available to inform instructional moves
- Student spotlights videos to model grade-appropriate discussion of mathematics for Grades 6–8 and Algebra 1
- Student assessment data available through the data dashboard with standards reporting available for summative assessments
- Resources to assist in lesson planning, including lesson cards, teaching notes, embedded teacher support around the Five Practices, planning videos, and Inspire Math videos
- Spanish materials are available for Grades K–Algebra 1
- Supports for special education and English Language Learner (ELL) classified students

Imagine Learning

- Onboarding and implementation support
- Professional development for teachers and administrators
  - Imagine Learning platform training
  - Illustrative Mathematics curriculum training
- Customer support to troubleshoot immediate issues

District

- Online access to Imagine Learning IM and appropriate bandwidth to support use
- Physical supplies (such as print matter, manipulatives, etc.) and technology including computers and mice or tablets
- School implementation plan
- Administrator and teacher buy-in

Classroom Activities

Student Activities

- Students complete one lesson per school day (totaling between 124 and 165 lessons over the course of the school year, depending on grade level)
- When assigned, students complete pre-assessments, problem checkpoints, and practice problems
- Students complete end-of-unit assessments, mid-unit assessment (when assigned), and end-of-course assessments (K–5 only)

Teacher Activities

- Teachers use, and have the option to edit, lesson plans and notes to design lessons for their classroom
- Teachers use reports for continuous monitoring of student learning and intervene when students are struggling with course material
- Teachers assign assessments and grade student work, either digitally or in print
- Teachers participate in professional development sessions
  - For elementary grades teachers, complete Teach-and-Learn Parts 1, 2, and 3 as well as Imagine Learning Platform Training
  - For middle grades teachers, complete Teach-and-Learn Parts 1, 2, 3, and 4 as well as Imagine Learning Platform Training

Outputs

Student Outputs

- Student participation, as reflected by the number of activities and lessons completed
- Students achieved content mastery, as reflected by scores on practice problems, end-of-unit assessments, mid-unit assessments (if applicable), and end-of-course assessments
- Students passed the course and are prepared forcontent in the next grade level

Teacher Outputs

- Teachers completed all professional development sessions and feel prepared to implement Imagine Learning IM
- Teachers made informed calibrations of content taught to individual students or entire classes based on student performance on Imagine Learning IM activities and assessments, including warm-ups, practice problems, centers (K–5) and cool-downs
- Teachers accessed student monitoring data as needed

Outcomes

Short-Term

- Improved student engagement, as measured by progress through activities and lessons
- Increased mathematics proficiency and content mastery, as reflected in assessment scores and course grade

Long-Term

- Increased student confidence in mathematics achievement
- Improved academic achievement on external progress monitoring and state assessments
- Increased mathematics performance in later grades
- Increased interest in mathematics as a field for future engagement or work