



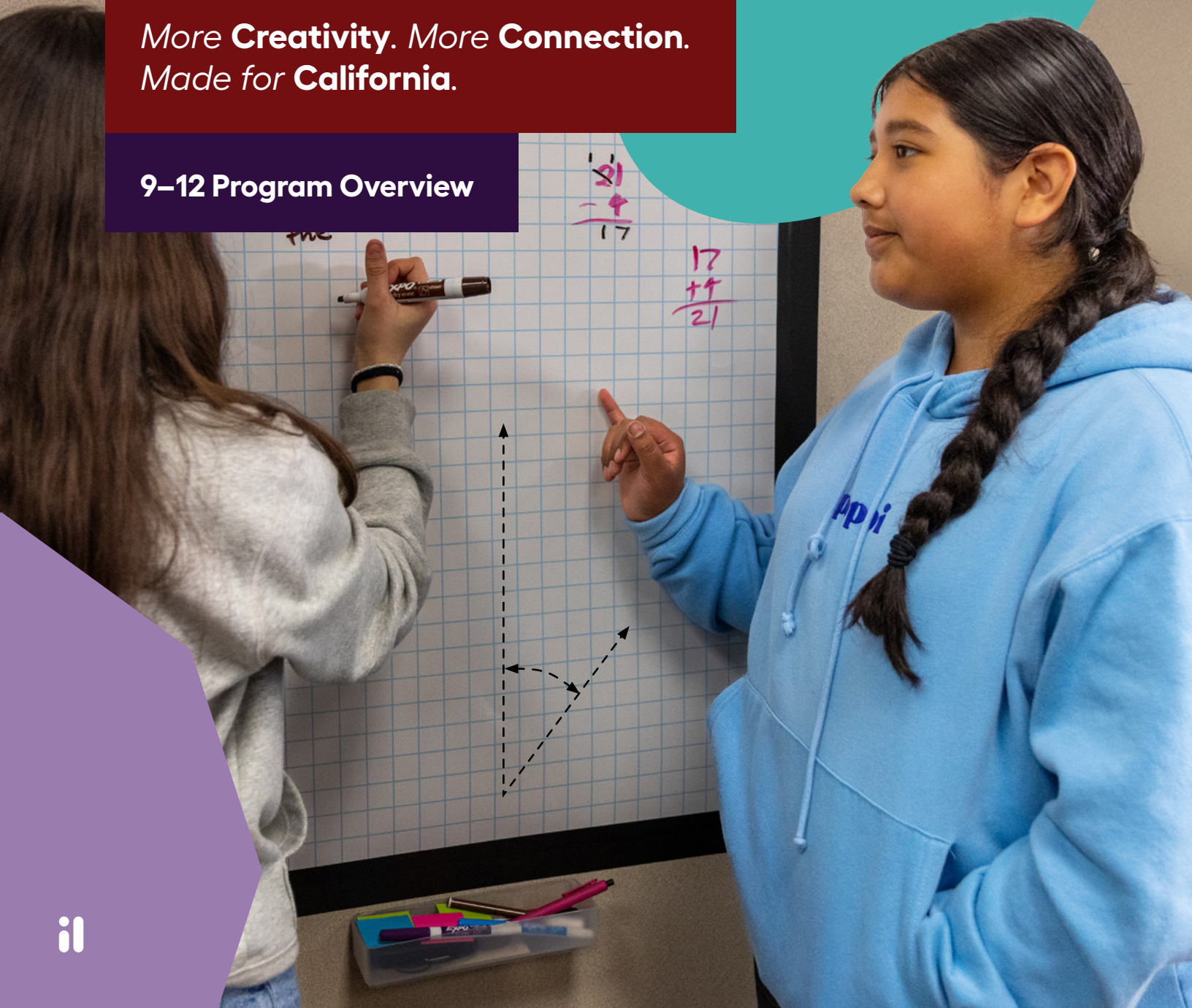
Core Curriculum

Grades 9–12

This Is Math that Matters!

*More Creativity. More Connection.
Made for California.*

9–12 Program Overview



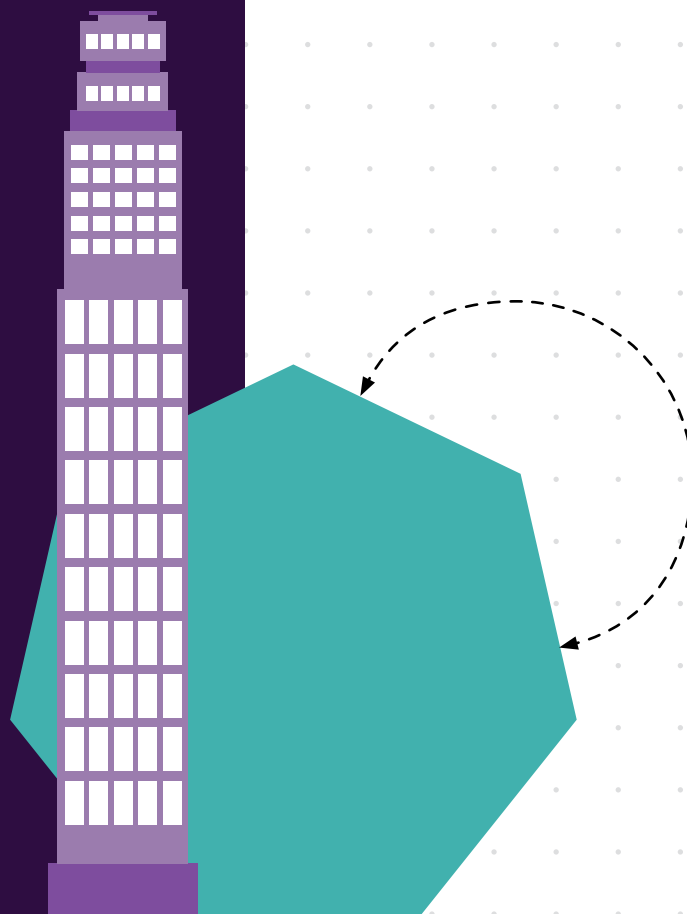
Authors, Research, and Certified Partnership

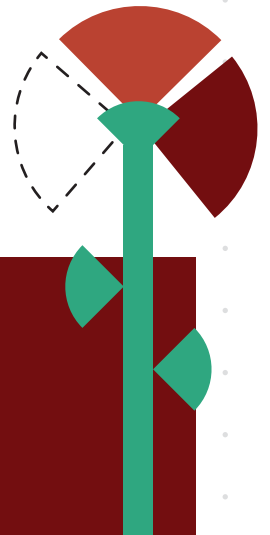
Illustrative Mathematics (IM®) was authored by Dr. Bill McCallum and a team of math leaders focused on improving student outcomes in mathematics. The problem-based instructional design is built on best practices and research principles from NCTM, National Research Council, Smith & Stein, and others. Imagine IM® incorporates the latest IM® v.360 curriculum update and has been optimized by Imagine Learning for engagement, accessibility, and usability.

Premium Certified Partnership

Imagine Learning is a premium IM-Certified® partner, a designation that confirms Imagine IM California adheres to IM's philosophy and has been reviewed and approved by Illustrative Mathematics. Imagine Learning worked closely with Illustrative Mathematics to ensure full alignment with its philosophy and research-based approach.

This partnership means schools get the best of both worlds: the rigor and coherence of the IM curriculum and Imagine Learning's enhancements and implementation support. It's a high-quality, evidence-based solution designed to help educators deliver meaningful, standards-aligned math instruction that works for all students.





Hey California!

As math becomes more abstract and complex in grades 9–12, students need support to think deeply, collaborate meaningfully, and apply what they know with confidence. That’s where Imagine IM California comes in.

Built on the proven Illustrative Mathematics IM v.360 curriculum and optimized for California classrooms, Imagine IM brings problem-based learning to life in **Algebra 1**, **Geometry**, **Algebra 2**, and **Integrated Math 1, 2, and 3**. Lessons are structured to promote discussion, reasoning, and built around real-world relevance, encouraging students to move beyond procedures and toward true understanding.

For teachers, Imagine IM provides a flexible, cohesive print and digital experience that supports deeper learning and responsive instruction. For students, it means math that feels challenging — and doable — in a classroom where their thinking matters.

This is math that matters for California.

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More Creativity

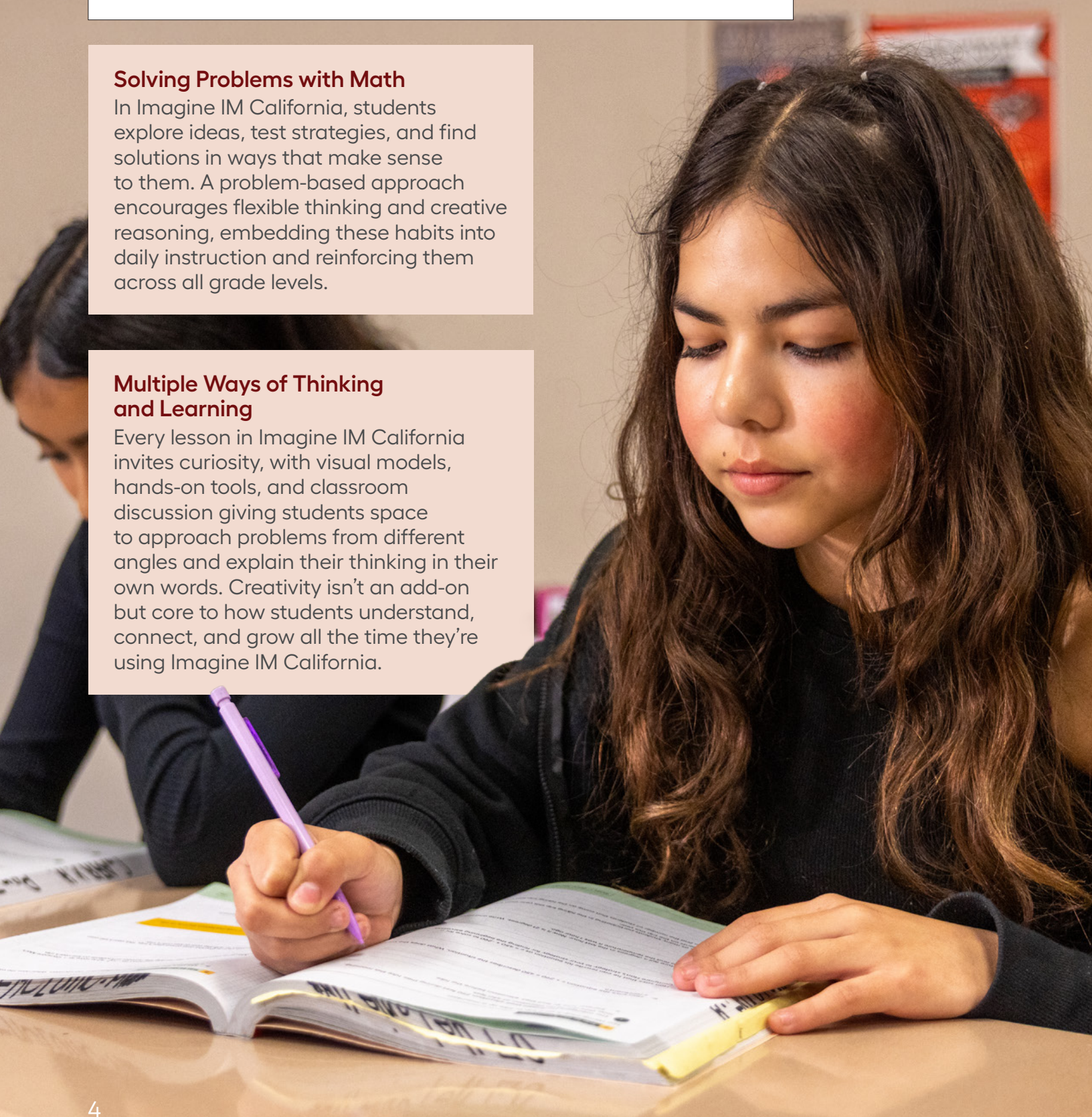
Math that makes space for imagination, curiosity, and real thinking.

Solving Problems with Math

In Imagine IM California, students explore ideas, test strategies, and find solutions in ways that make sense to them. A problem-based approach encourages flexible thinking and creative reasoning, embedding these habits into daily instruction and reinforcing them across all grade levels.

Multiple Ways of Thinking and Learning

Every lesson in Imagine IM California invites curiosity, with visual models, hands-on tools, and classroom discussion giving students space to approach problems from different angles and explain their thinking in their own words. Creativity isn't an add-on but core to how students understand, connect, and grow all the time they're using Imagine IM California.



More Connection

Bringing students closer to the math, each other, and the world around them.

Engaging with Math that Matters

Imagine IM California builds connection through relevant, real-world problems that encourage students to wonder, make sense, and stay engaged.

Learning Together, Thinking Together

Instructional routines promote student-to-student connection. Whether collaborating on a strategy or comparing models, students learn to reason, listen, and build understanding as a group.

Math with Real-World Relevance

From data sets to environmental topics, students explore math that connects to the world they live in, strengthening understanding and enriching math with a sense of purpose.

Made for California

Imagine IM California is designed to align with the state's math standards, priorities, and classroom needs.

Designed for California Schools and Districts

Imagine IM California supports educators in building student proficiency with the California Common Core State Standards for Mathematics (CA CCSSM) and the Standards for Mathematical Practice (MP).

Teacher and student resources reinforce the Big Ideas and principles in the Mathematics Framework, with a focus on engagement, accessibility, and ease of use.

LESSON
Int1.1 Lesson 8: Using Technology for Constructions

Unit-level Alignments ▶ **BI** Building with Triangles ▶ **BI** Transformations and Congruence

Standards ▶ **CA.G-CO.1** ▶ **CA.G-CO.12** ▶ **CA.G-CO.13**

Warm-up Addressing **G-CO.1**,
The Right Tool Building Towards **G-CO.12**, **G-CO.13**

10 min

Alignments
Addressing **G-CO.1**, **G-CO.12**
Building Towards **G-CO.12**, **G-CO.13**
Mathematical Practice
MP.6

15 Activity 2: Can You Make a Perfect Copy?

2) Here is a figure that shows the first few steps to constructing the regular hexagon. Use straightedge and compass moves to finish constructing the regular hexagon. Trace it onto tracing paper and confirm that when you fold it in half, the edges line up.

3) How do you know that the hexagon you constructed is regular? Show or explain your reasoning.

Student response:
2. Sample construction:
3. Sample response: All side lengths are congruent. Each circle in the construction has the same radius, which is also the length of each side of the regular hexagon.

The California Framework's Big Ideas and Content Connections

The California Framework's Big Ideas in Mathematics organize grade-level content into a clear, connected structure. These concepts support focused instruction and help students build deep understanding through authentic, engaging investigations.

Each unit in Imagine IM is anchored in these Big Ideas and Content Connections. Teacher and student materials — in both print and digital — highlight where and how instruction aligns at the course, unit, section, and lesson level.

Imagine IM California Integrated Math 1 Big Ideas in Mathematics Alignment									
Modeling with Functions	Computing Functions	Building with Triangles	Variability	Correlation and Causation	Computing Models	Transformations and Congruence	Shapes in Structures	Systems of Equations	
Unit 1 Units 1-10	Units 8-10	Unit 1 Unit 3	Unit 3 Unit 4	Unit 5	Unit 4 Unit 6-10	Unit 1 Unit 2 Unit 5	Unit 2 Unit 5	Unit 4 Unit 7	
Unit Level Big Ideas in Mathematics Alignment									
Unit 1 Big Ideas									
Building with Triangles									
Transformations and Congruence									
CA Standards									
Seeing Structure in Expressions									
Creating Equations									
Reasoning with Equations and Inequalities									
Interpreting Categorical and Quantitative Data									
Quantities									
Interpreting Functions									
Building Functions									
Linear, Quadratic, and Exponential Models									
Congruence									
Expanding Geometric Properties with Equations									
Standards for Mathematical Practice (MP)									
MP.1, MP.3, MP.4, MP.5, MP.6, MP.7, MP.8									

Environmental Principles and Concepts (EP&Cs)

Imagine IM California promotes environmental literacy by connecting math learning to real-world ecological concepts.

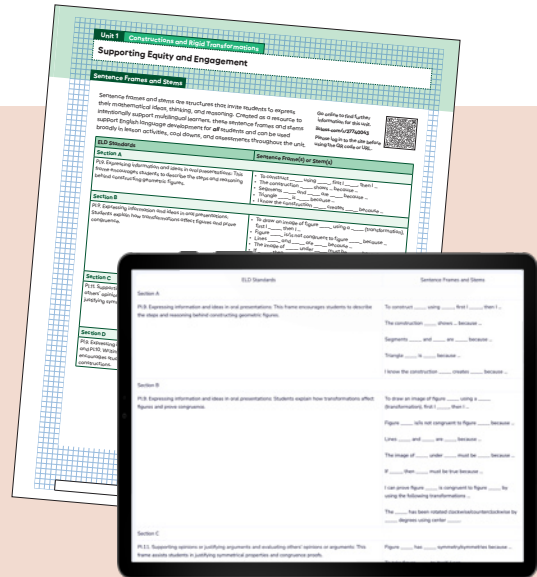
Activities and Inspire Math videos are designed with the EP&Cs in mind, and each Teacher Guide includes clear correlations and integration questions organized by unit.



English Language Development (ELD) Standards

The problem-based design of Imagine IM California supports English language development for all learners. Aligned to California's ELD Mathematics Standards, the program helps students build academic language while deepening conceptual understanding.

Each unit includes sentence frames and stems that scaffold instruction for Multilingual Learners (MLLs), aligned to key vocabulary and lesson goals in both print and digital formats.



A Proven Partner in California

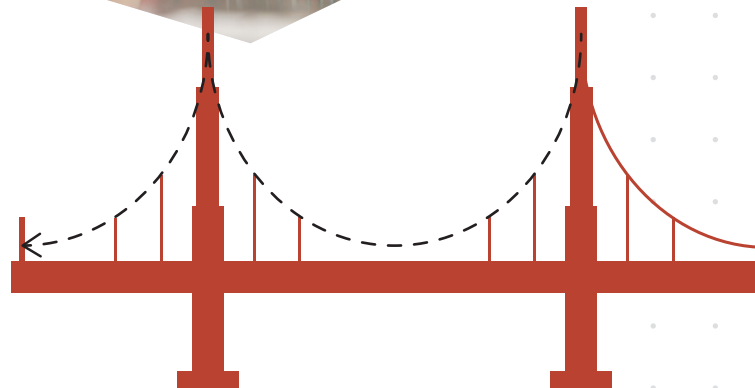
Districts from Los Angeles to Ceres to Poway already use Imagine IM California, reporting success with both students and teachers. By partnering with Imagine Learning, they benefit from seamless implementation of California's leading HQIM solution for rigorous, equitable, student-centered math.

Across grade levels and districts, Imagine IM California is helping California students connect, collaborate, and grow in math, while giving teachers the tools and structure to support deeper learning.



"The amount of conversations students are having about the mathematics... not just the answer, but the process of the mathematics... has definitely been a huge growth area."

Melanie R., Instructional Math Coach (TOSA), Ceres USD



Getting Started with Imagine IM

Imagine IM offers a complete suite of print, digital, and classroom-ready components designed to meet the needs of California high school educators and students.

Teacher Components*

* Spanish translations available

Print

Teacher Course Guide

Includes an overview of the curriculum, instructional design, guiding principles, assessment, and supports for diverse learners. Also highlights pacing and coherence across the year.

Teacher Guides — 9 spiral-bound volumes per course

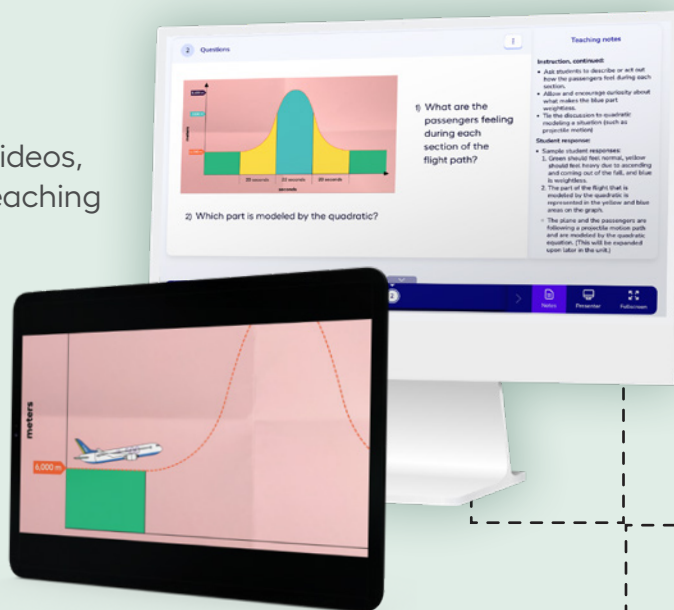
Full lesson plans with teaching supports, student page reduses, and QR codes linking to digital resources at the unit, section, and lesson level. Teacher Guides are available in full Spanish for **Algebra 1** and **Integrated Math 1**.



Digital

The Imagine IM California digital platform supports planning, teaching, and blended learning through tools such as:

- **Planning and Instruction:** Unit Launch videos, assignable digital lessons, embedded teaching notes, and unit maps
- **Lesson Delivery:** Editable lesson cards, Live Learn, and annotation tools
- **Home Connections:** Family letters and Family Support videos
- **Data and Reporting:** Dashboards, performance reports, and monitoring tools



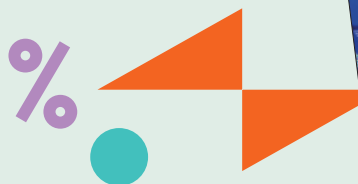
Student Components*

* Spanish translations available

Print

Consumable Full-Color Workbooks

Available in English and Spanish for all courses, each workbook includes complete lessons with space for student thinking and QR codes linking to relevant digital resources.

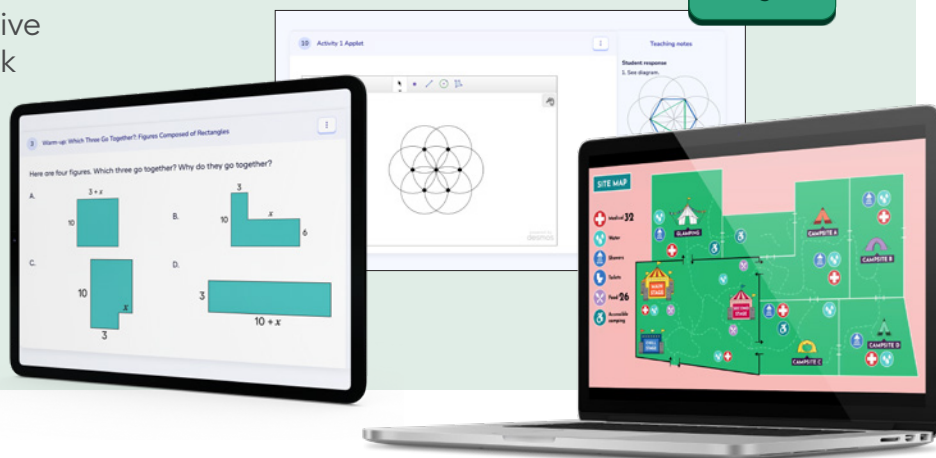


Digital

Students can access interactive versions of Student Workbook content, task statements, assessments, videos, and Desmos-powered digital interactives.

Student digital content is available in Spanish for grades TK–12.

Assign ▾



Professional Learning

Imagine IM offers flexible professional learning for teachers, coaches, and administrators, available in both virtual and in-person formats.

Workshop modules are designed for hands-on learning and application, while self-directed training is embedded in the platform for ongoing support, including:

- **Learning Narrative** videos covering unit goals, models, and common student misconceptions
- **Lesson Example** videos from real Imagine IM classrooms

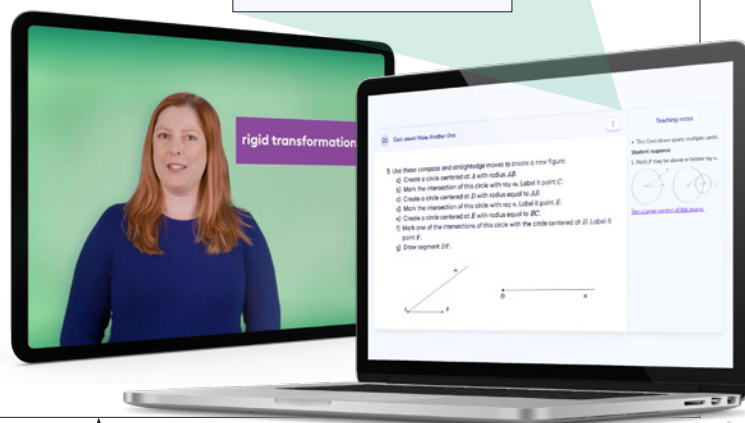
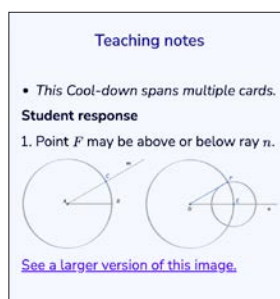


Teacher Experience

Imagine IM California supports teachers with flexible, easy-to-use tools created to work in real classrooms. Whether you're planning a lesson, leading instruction, or adapting on the fly, everything is designed to save time and support meaningful learning.

Implementation that Fits Teachers' Needs

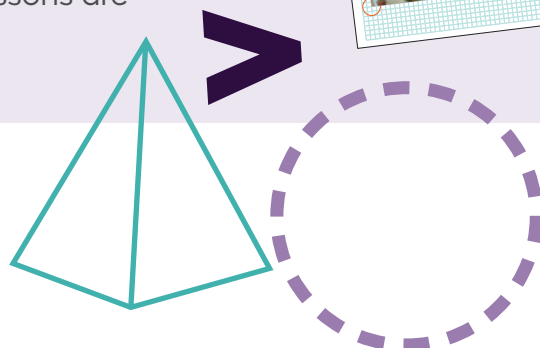
Strong math instruction starts with strong support. Imagine IM California offers point-of-use guidance to help teachers plan, adjust, and facilitate lessons confidently across classroom models. Teachers can access Learning Narratives, Progressions, and Lesson Supports videos from the Teacher Guide or digital platform, with real classroom examples providing clear, practical models of problem-based instruction.



Flexible Instructional Tools

Teachers have the tools to teach in ways their students learn best.

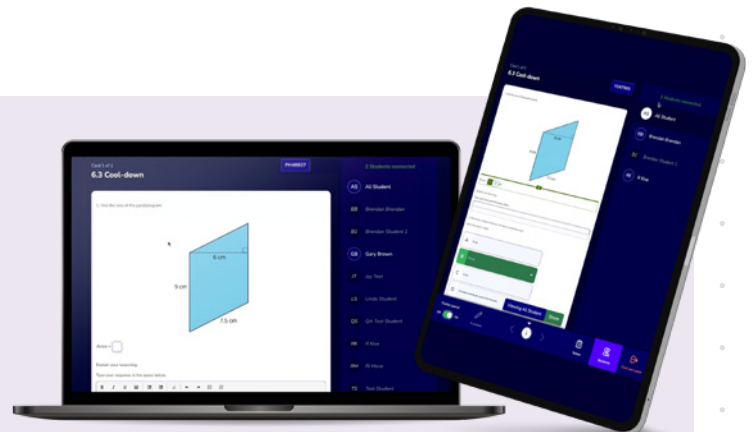
- **Print and Digital:** Teacher Guides and Student Workbooks connect directly to digital components to maintain lesson integrity across formats.
- **Editable Lessons:** Digital lesson cards can be copied, assigned, or customized to support every learner.
- **Projection-Ready:** Lessons are easily shareable in class or online.



Live and Interactive Teaching

Tools that make teaching more responsive.

- **Live Learn** allows teachers to launch live sessions directly from the platform.
- **Annotation Tool** brings instruction to life by letting teachers write, draw, and share thinking on-screen in real time.

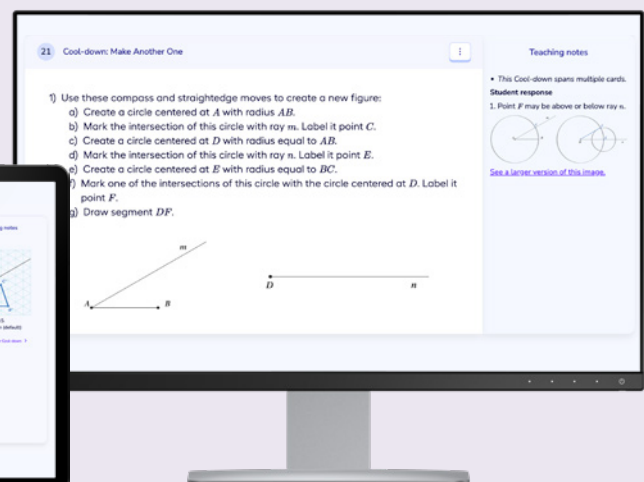
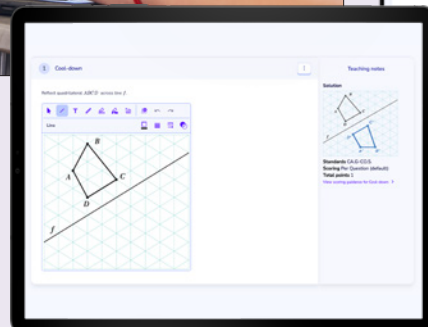
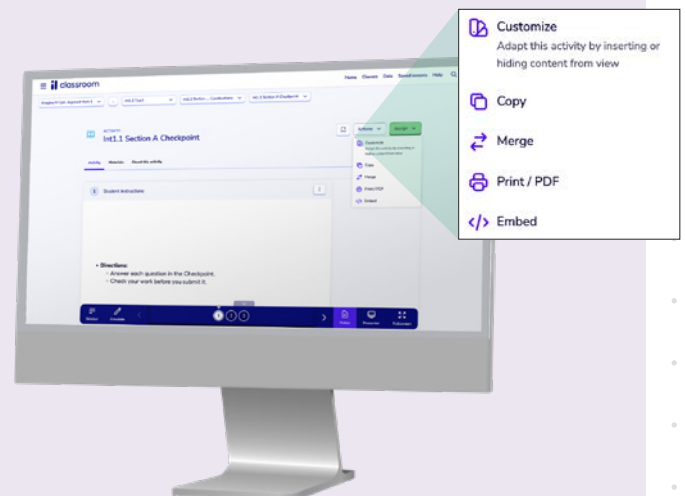
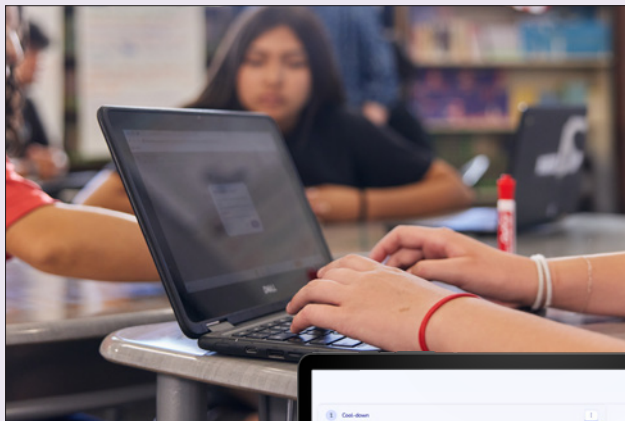


The on-demand feature makes visibility of student work and timely feedback more efficient.

Formative Assessment and Feedback

Teachers can track progress and adjust instruction using tools that provide real-time insight into student learning:

- Digital task statements
- Section checkpoints
- Feedback from digital centers
- Cool-downs and staged centers

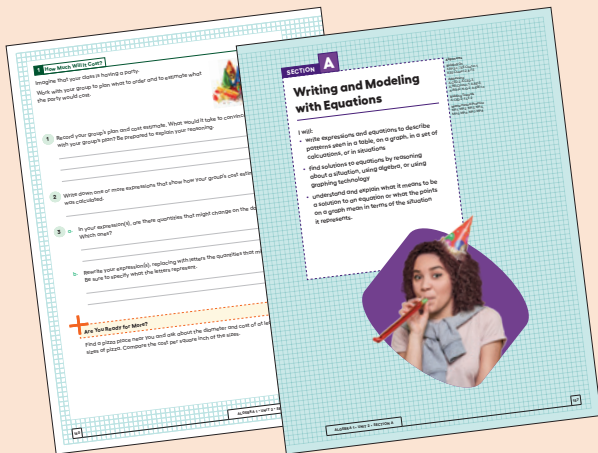


Student Experience

Imagine IM immerses students in meaningful, rigorous math through a problem-based approach and engaging, interactive resources. With tools that foster creativity and collaboration, students build confidence and develop skills they'll use in college, careers, and life.

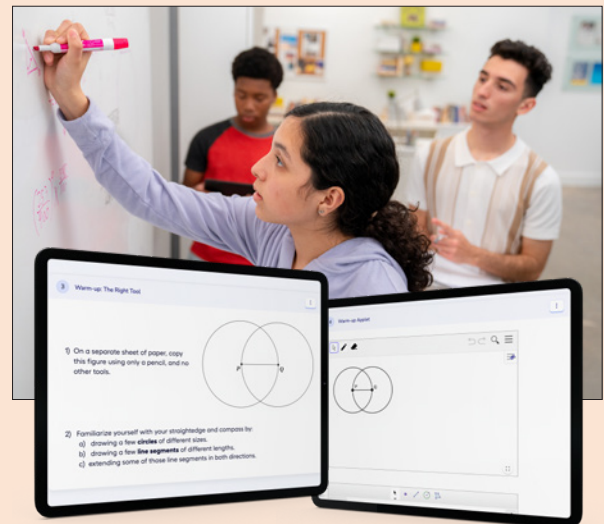
Making Math Meaningful and Relevant

High school students are natural problem solvers: curious, analytical, and eager to make connections. Imagine IM California gives them space to explore, test strategies, explain thinking, and engage with challenging questions. Lessons are designed to elevate student voice and build lasting mathematical habits.



Supporting Understanding, Fluency, and Application

Instructional routines, visual models, and conceptual tools help students build deep understanding, procedural fluency, and confidence applying math to authentic problems. Every component is designed to support retention, reasoning, and real engagement.



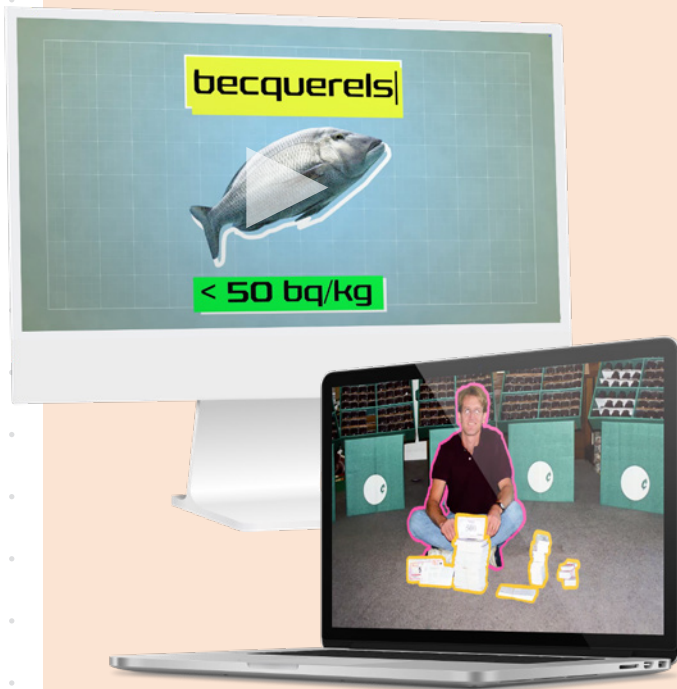
Fostering Discussion and Reflection

Imagine IM California encourages active learning through talk, reflection, and shared problem-solving. Embedded opportunities across lessons and centers help students build confidence in the Standards for Mathematical Practice in ways that feel collaborative and authentic.



Inspire Math Videos

Short, high-interest videos open each unit with a real-world or unexpected context to spark curiosity. Later videos revisit the topic, reinforcing learning and encouraging students to connect math to the world around them.



Alg1.1 Inspire Math Video: Introduce

The Inspire Math video for Algebra 1, Unit 1 showcases the mathematics of the unit in a real-world, engaging context. This viewing to introduce the content is recommended before Lesson 3. Credits: Screenocean/Reuters Produced by ...

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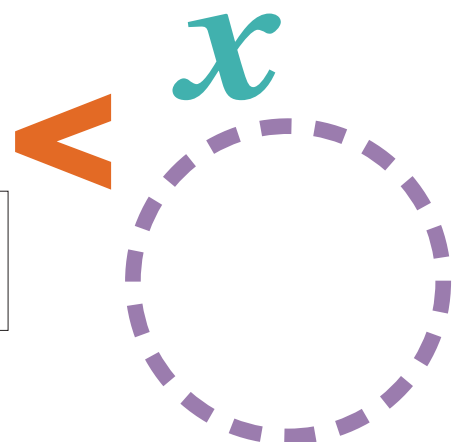
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The Inspire Math video for Algebra 1, Unit 1 showcases the mathematics of the unit in a real-world, engaging context. This viewing to introduce the content is recommended before Lesson 3. Produced by Twig Education LTD. for Imagi...

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Inspire Math videos are available in both English and Spanish.

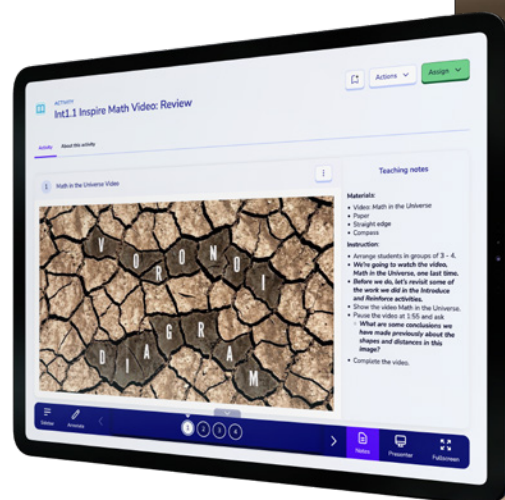


Problem-Based Learning in Action

Problem-based learning is powerful because it invites students to **think, talk, and make sense of math**.

In Imagine IM California, this approach is the foundation of every lesson. Rather than starting with formulas, students begin with a question, a visual, or a real-world situation that gets them thinking. They explore, test ideas, and collaborate with classmates to uncover strategies and solutions.

This kind of learning helps students build **deep conceptual understanding**, not just surface-level skills. It supports productive struggle, values multiple approaches, and encourages students to explain their thinking — all key habits of strong mathematical thinkers.



Active Participants in Learning

In Imagine IM California, problem-based learning is **inclusive by design**. Lessons begin with warm-ups and prompts that reflect students' lived experiences and cultural knowledge. Throughout each lesson, students use hands-on tools, digital manipulatives, and visuals to make math come alive. They learn to reason together, reflect on their process, and connect ideas across lessons.

Because students are active participants in their learning, engagement goes up and confidence follows.

Unit and Lesson Structures

Imagine IM California is built to make math meaningful, inclusive, and connected from start to finish. It follows a thoughtful structure that supports all learners, not just in mastering procedures, but in building deep understanding through discussion, reasoning, and real-world relevance.

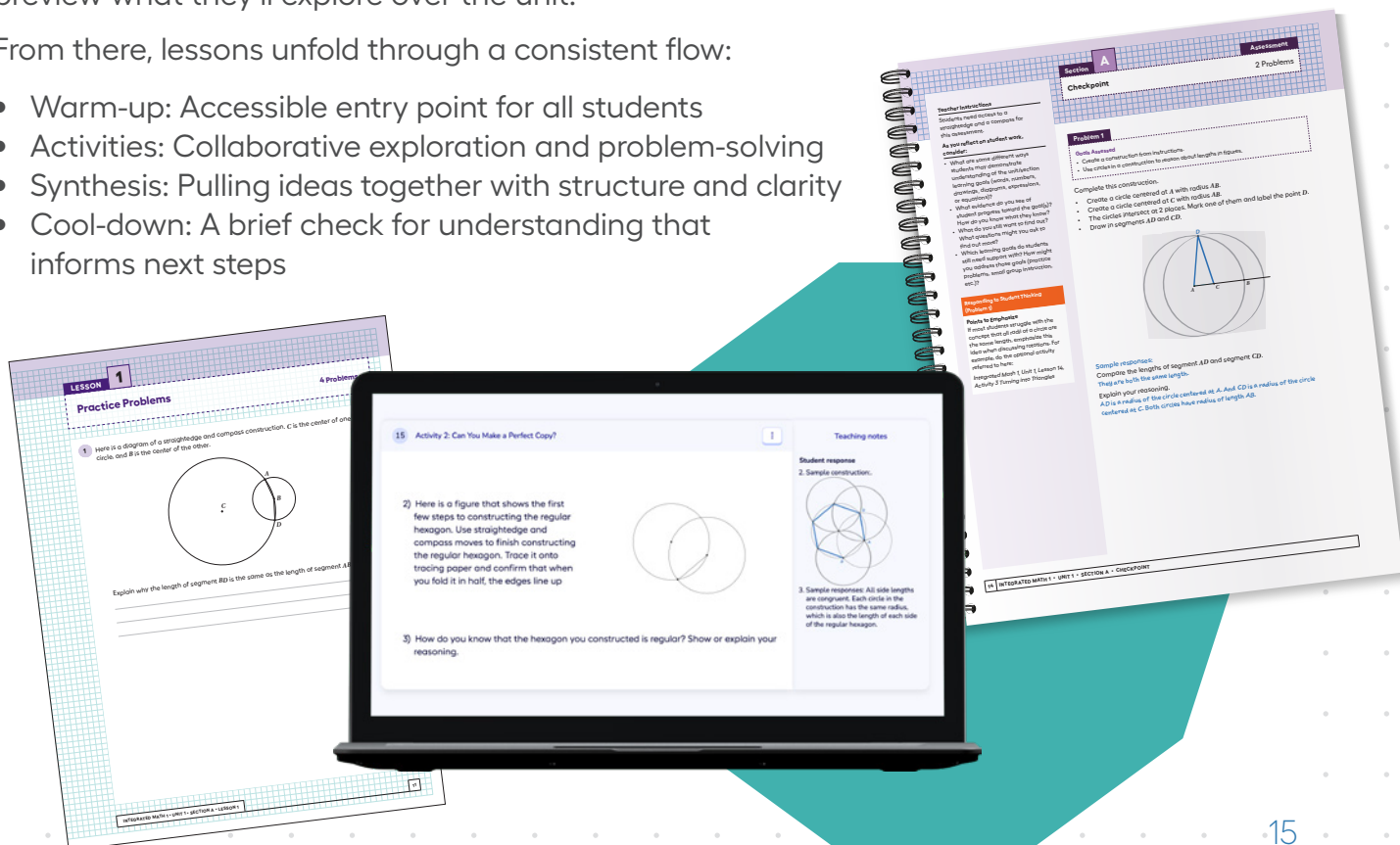
Each activity and lesson is part of a mathematical story across units and grade levels. This coherence allows students to view mathematics as a connected set of ideas that make sense together.

	Invitation to the Mathematics	Deep Study of Concepts and Procedures	Consolidating and Applying
Course Level	Invitational Unit	Deep Study Units	Consolidation Unit
Unit Level	Introductory Lesson	Instructional Lessons	Culminating Lesson
Lesson Level	Warm-up	Classroom Activities	Synthesis and Cool-down
Activity Level	Launch	Work Time	Synthesis

Each unit opens with an **Inspire Math video**, introducing new content through an engaging, authentic context. These short videos spark curiosity and help students preview what they'll explore over the unit.

From there, lessons unfold through a consistent flow:

- Warm-up: Accessible entry point for all students
- Activities: Collaborative exploration and problem-solving
- Synthesis: Pulling ideas together with structure and clarity
- Cool-down: A brief check for understanding that informs next steps



Problem-Based Learning in Action continued...

Warm-Ups: Inviting Every Student Into the Math

Each lesson begins with an inclusive warm-up that draws from students' experiences and cultures. Using open-ended prompts like "What do you notice? What do you wonder?," students are encouraged to share and explore ideas without fear of being wrong.

These routines promote:

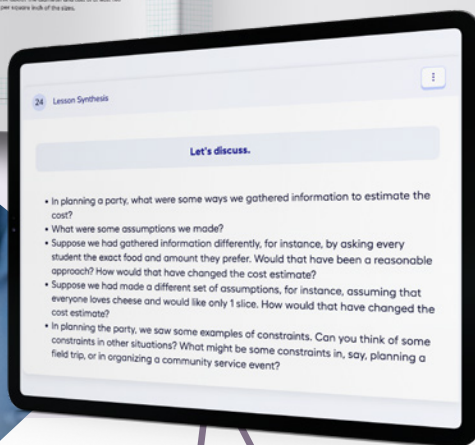
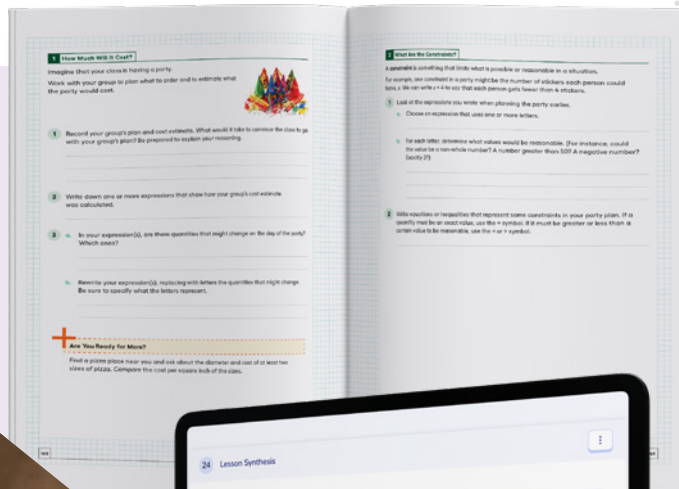
- Entry for every learner
- Rich conversation and collaborative thinking
- Language development and identity-building in math

Instructional supports — including guiding questions, sentence stems, and language scaffolds — are built into both print and digital teacher materials.

Activities: Learning by Doing

Activities in Imagine IM go beyond practice. They're an invitation to **explore, question, and make meaning together**. Students are given time to grapple with problems individually before working in small groups, using models, manipulatives, and visual tools to deepen understanding.

Each activity is followed by a structured **activity synthesis** stage, in which teachers bring together key ideas and student insights. This is where connections are made, misconceptions are addressed, and mathematical language is developed within the community of learners.

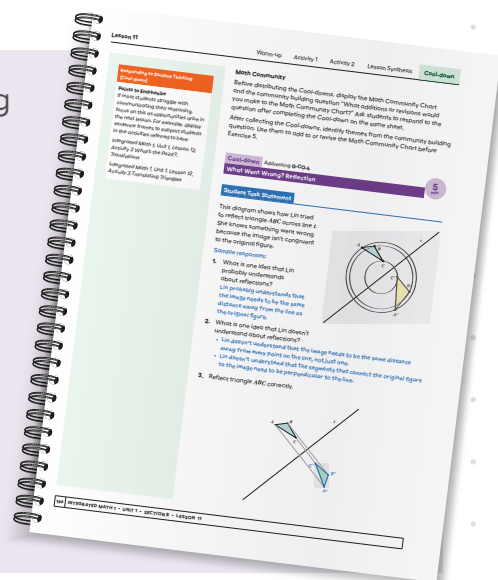


Lesson Synthesis and Cool-Downs

The lesson ends with a synthesis to consolidate understanding and make the learning goals of the lesson explicit.

Finally, cool-downs are short, targeted tasks that help teachers gauge each student's progress toward the learning goal. Whether completed on paper or digitally, cool-downs give clear, actionable information to guide next steps:

- Built-in teacher supports offer reteaching suggestions
- Digital cool-downs include automatic scoring and item analysis
- Data is immediately available for planning and small-group work



Equity and Access

Imagine IM California is built on three core design principles to support all learners:

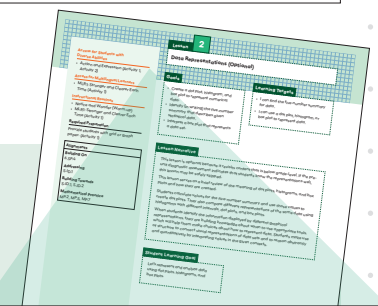
- Provide access for all
- Presume competence
- Focus on strengths, not deficits

These principles are woven throughout every unit and lesson, ensuring all students are seen, supported, and empowered to succeed in math.



Built for Endurance and Perseverance

Lessons are designed with care and intention. From number choice to context complexity, every element is crafted to support meaningful learning and productive struggle for all students.

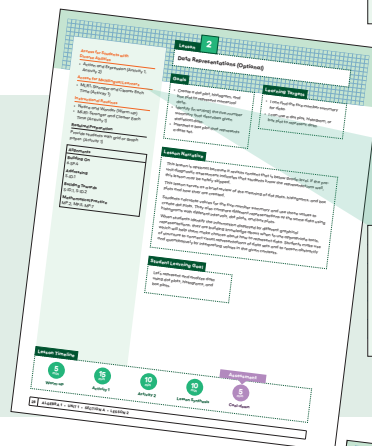


Instructional Routines

- Notice and Wonder (Warm-up)
- MLR1: Stronger and Clearer Each Time (Activity 1)

Support for Diverse Abilities

Each lesson includes built-in guidance for students with diverse learning needs. These supports align with Universal Design for Learning (UDL) principles — **engagement, representation, and action and expression** — and are embedded directly in teacher materials.

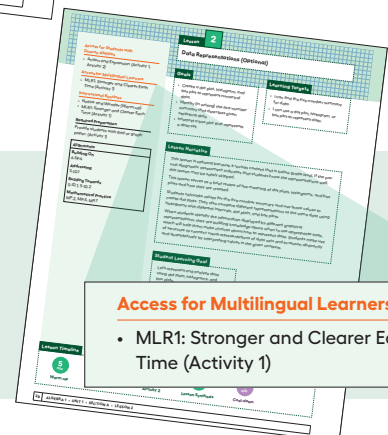


Access for Students with Diverse Abilities

- Action and Expression (Activity 1, Activity 2)

Support for Multilingual Learners

Mathematical Language Routines (MLRs), grounded in the UL/SCALE framework from Stanford, are embedded throughout. These eight consistent routines help students grow their math language, content knowledge, and communication skills.



Access for Multilingual Learners

- MLR1: Stronger and Clearer Each Time (Activity 1)



Culturally Responsive Design

- Diverse main characters and illustrations
- Inclusive and respectful portrayal of race, culture, religion, gender, and ability
- Central figures with qualities like leadership, creativity, and courage
- Opportunities to explore a variety of perspectives and contributions



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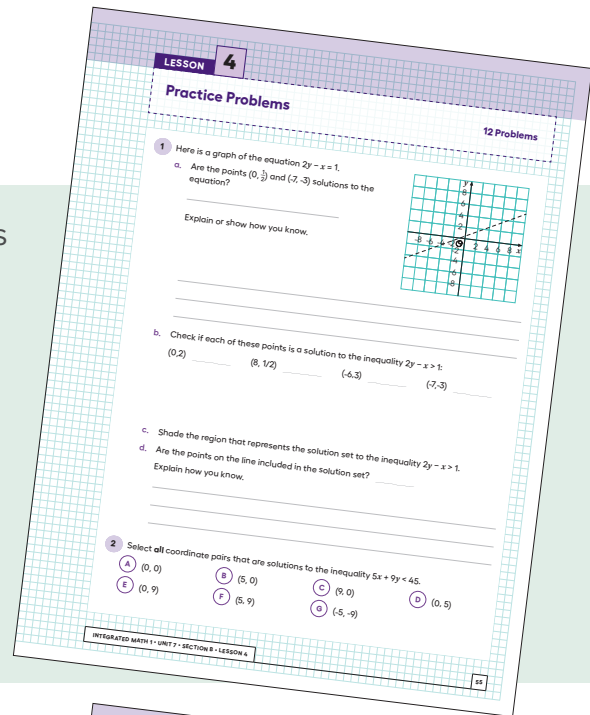
Assessment

Measure understanding and meet learning goals

Imagine IM offers both formative and summative assessments designed to help high school teachers evaluate student understanding, monitor progress, and make instructional decisions with confidence.

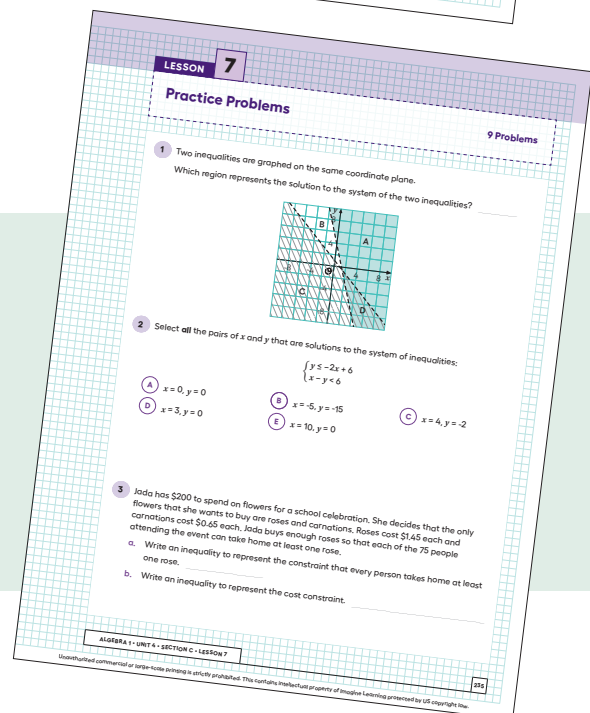
Formative Assessment

- **Check Your Readiness:** Diagnostic assessments at the start of each unit help identify prerequisite gaps or below-grade-level needs that can be addressed during the unit.
- **Learning Goals and Targets:** Each lesson includes clear learning goals that guide student focus and can be used for reflection or self-assessment.
- **Cool-Downs:** Every lesson ends with a cool-down to gauge student understanding.



Summative Assessment

- **End-of-Unit Assessments:** Every unit includes a written and digital assessment. Longer units may include a mid-unit assessment.
- All summative assessments include complete solutions and standards alignment.
- Multiple-choice and multiple-response items often include explanations of common errors to help guide instruction.



Digital Practice

Cumulative practice problems are available for every lesson and can be used for independent practice, homework, or review.



Data and Reporting

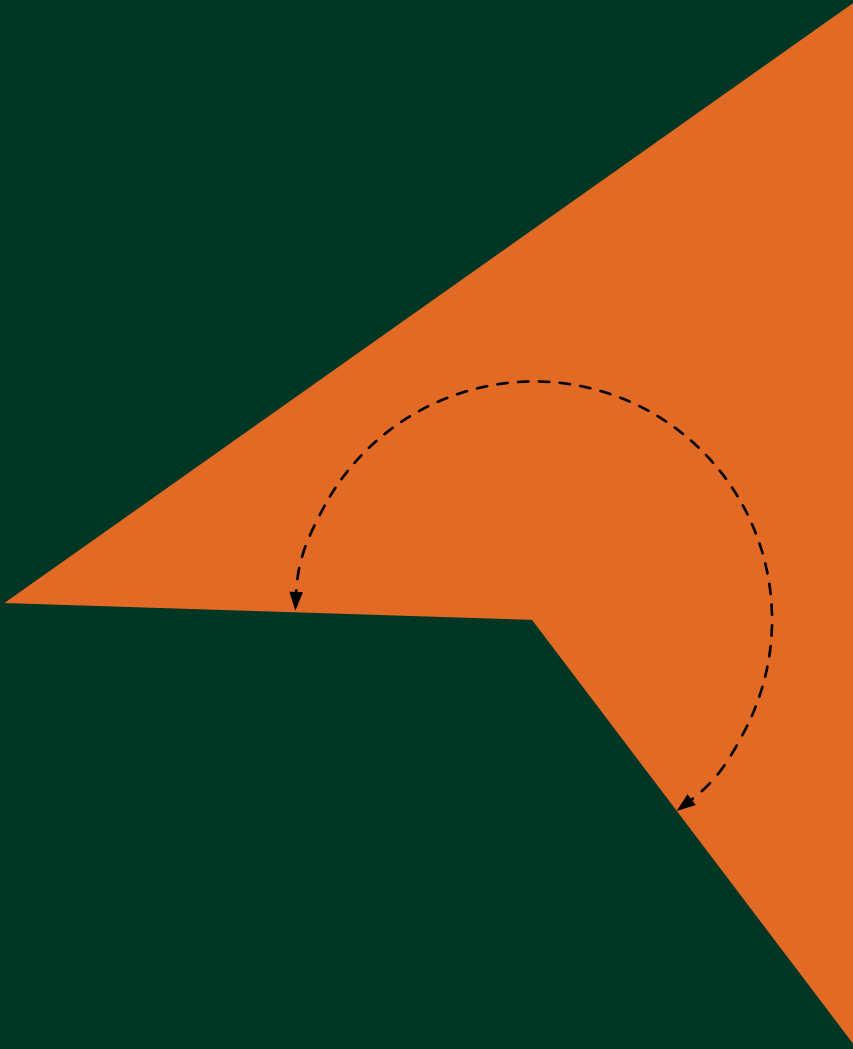
- Real-time reporting tools provide class performance data, item analysis, and year-over-year retention insights.
- Teachers can drill down into student work — including open-ended responses — to guide future instruction.
- Dashboards include assignment scores and visual breakdowns of performance across standards.



8-3-5







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 **imagine
learning**
empower potential.