Core Curriculum

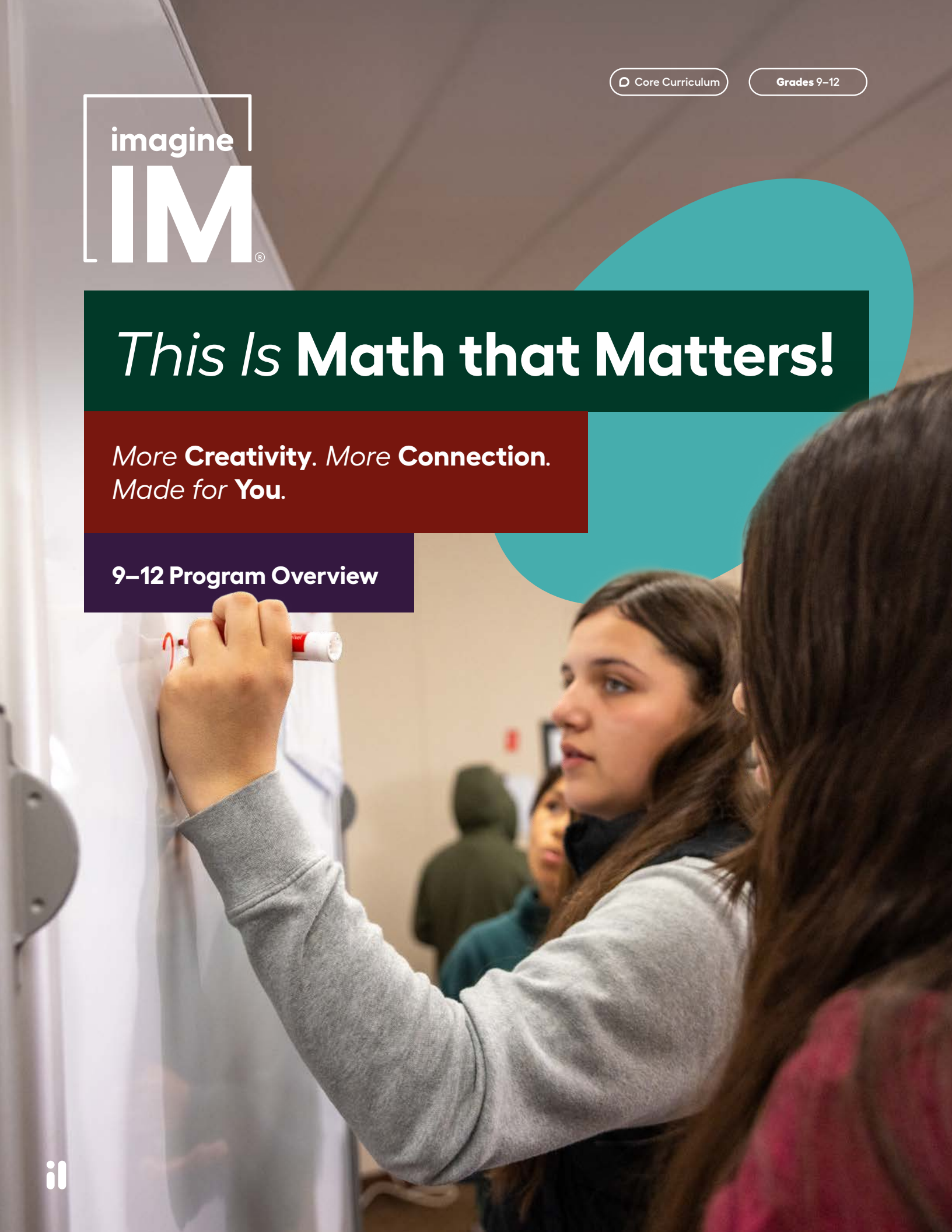
Grades 9–12

imagine IM®

This Is **Math that Matters!**

More **Creativity**. *More* **Connection**.
Made for **You**.

9–12 Program Overview



More Than a Curriculum

Imagine IM® is a complete teaching and learning solution, built on the latest Illustrative Mathematics IM v.360 curriculum, designed to help teachers see student thinking, respond in the moment, and build lasting understanding through creative, connected problem-solving.

- Act on student thinking with targeted, aligned instruction
- Address learning needs without slowing grade-level progress
- Build understanding through coherent, problem-based instruction

An IM K–12 Math™ Curriculum

iM v.360®

Premium Certified Partner

Top Rated for Quality

All-green across all EdReports gateways.

Designed for Teachers. Built for Real Classrooms.

Aligned to state standards and built to support your day-to-day teaching and instructional growth.

What You'll See Inside

Teach with Purpose. Build Understanding.

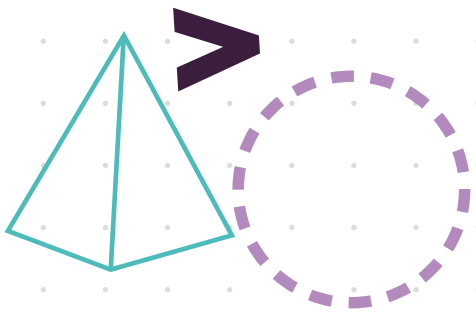
Focus on Understanding to Reduce Reteaching 4
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See Student Thinking. Act Sooner.

See Student Thinking 12
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Everything You Need. Proven to Work.

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Focus on Understanding to Reduce Reteaching

A coherent design connects concepts across lessons, units, and grades, so students retain more and need less reteaching later.

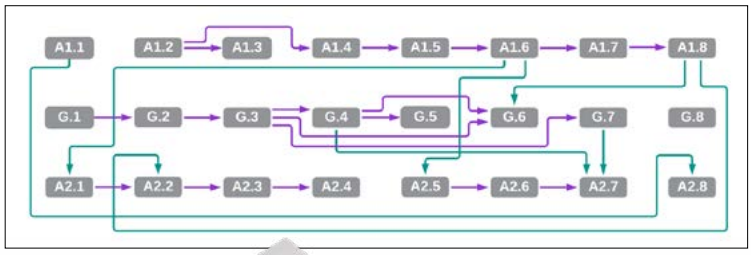
In Imagine IM, each lesson, unit, and grade is part of a larger progression, helping students connect new ideas to what they already know.

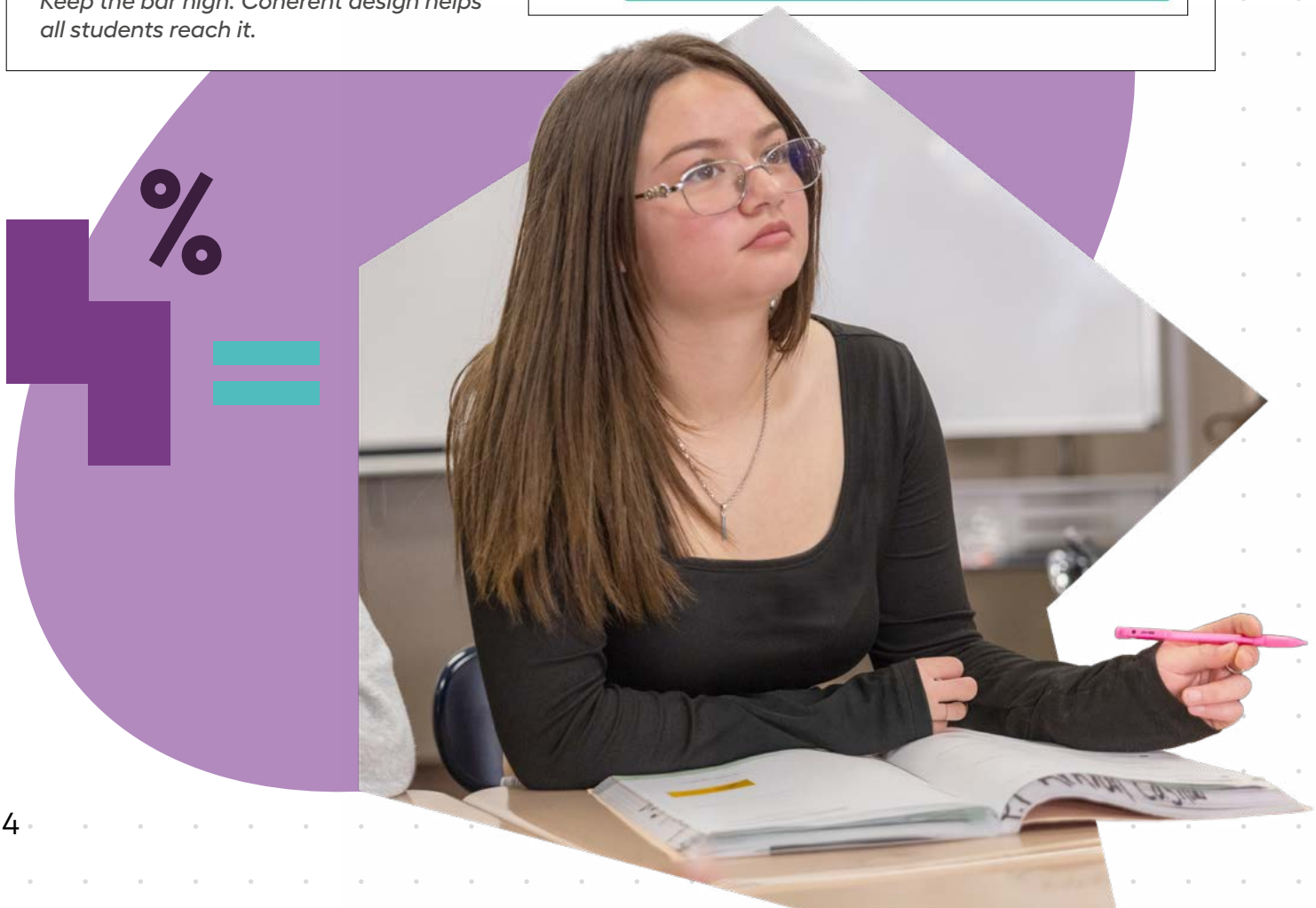
Students engage in productive struggle, make sense of ideas, and develop lasting understanding without over-scaffolding or constant reteaching.

How Understanding Builds Over Time

Concepts are intentionally connected and revisited, helping students see how each lesson fits into a larger mathematical progression.

Keep the bar high. Coherent design helps all students reach it.





Designed for Building Understanding, Lesson by Lesson

Instruction follows a consistent design across units, lessons, and activities, supporting sense-making, discussion, and the connection of ideas over time.

	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

From launch to synthesis, each part of the unit, lesson, and activity is designed to help students make sense of mathematics, building understanding through connection, not shortcuts or simplification.

When Additional Support Is Needed

Even with strong instruction, some students may need additional support.

The optional **Adaptive Companion** provides personalized, skills-based practice that adapts to student needs, helping reinforce understanding while keeping students connected to grade-level learning.

Supports learning without replacing core instruction.

Instructional Routines That Promote Thinking and Discourse

Instruction in Imagine IM is designed to keep student thinking at the center. Students are driven by curiosity as they compare, connect, and refine strategies to make sense of mathematics every day.

A Structured Approach to Problem-Based Instruction

Each lesson follows a consistent structure that supports student thinking, collaboration, and sense-making — while giving teachers clear guidance for facilitation.

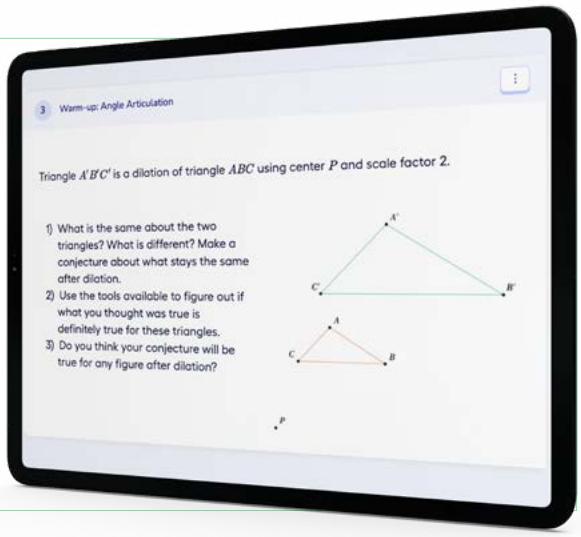
	Student Groupings		
	Whole Class and Small Groups	Varies: Independent-Think Time, Partners, Small Groups	Whole Class and Independent
Lesson Structure	**Warm-Up** *5–10 minutes*	**Lesson Activites** *30–40 minutes*	**Synthesis & Cool-Down** *10 minutes*
	Every student finds an accessible entry point for engagement and contribution.	Students grapple with problems, explore strategies, and build understanding through collaboration.	Teachers and students connect ideas and consolidate learning through structured discussion. Then a quick check for understanding to guide instruction and support.
	← Modeling, Practice, Assessment, and Differentiation →		

Students think independently, collaborate with peers, and engage in whole-group discussion, building understanding through structured learning experiences.

Designed for Student Agency

Students explore, explain, and connect ideas using creativity and reasoning to make sense of mathematics.

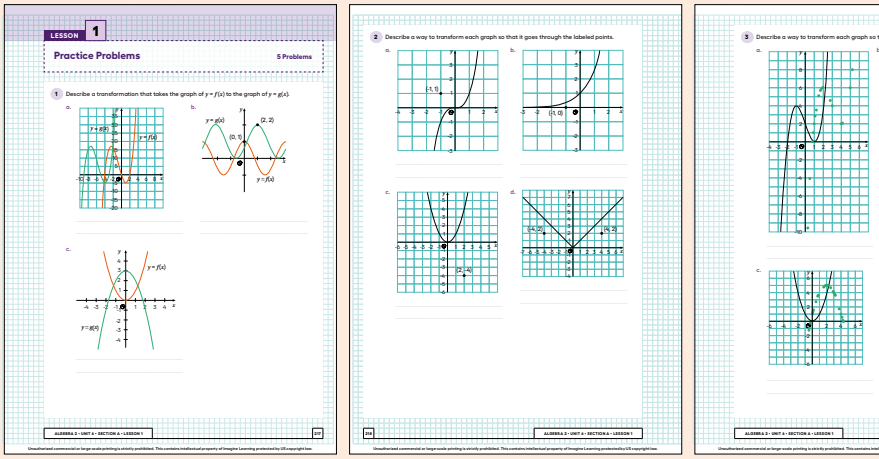
- Instructional routines create consistent structures for participation and sense-making
- Students make decisions, explore ideas, and build understanding through problem solving
- Structured discussion builds reasoning and mathematical language



Practice that Supports Learning

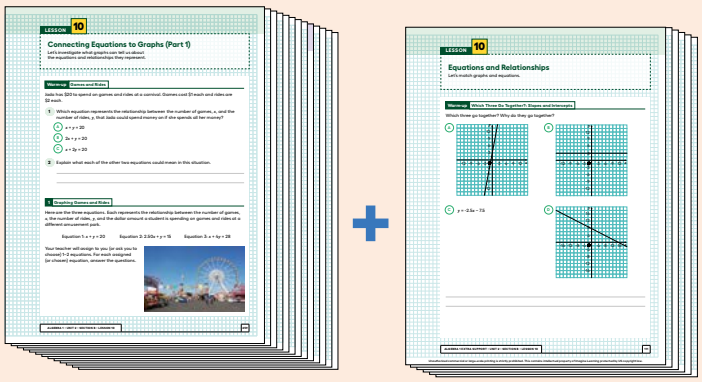
Practice in Imagine IM is embedded in learning, not separate from it, through problem solving, discussion, and reflection.

- Print and digital practice for every lesson
- Targeted practice with Math Practice Creator
- Additional section-level practice



Extra Support for Algebra 1

Extra Support lessons help teachers address unfinished learning within the context of rigorous, grade-level instruction, supporting access without lowering expectations.



Algebra 1 Lesson:
Introduces and develops grade-level Algebra 1 concepts.

Algebra 1 Extra Support Lesson:
Provides additional structure and support to help students build understanding and confidence.

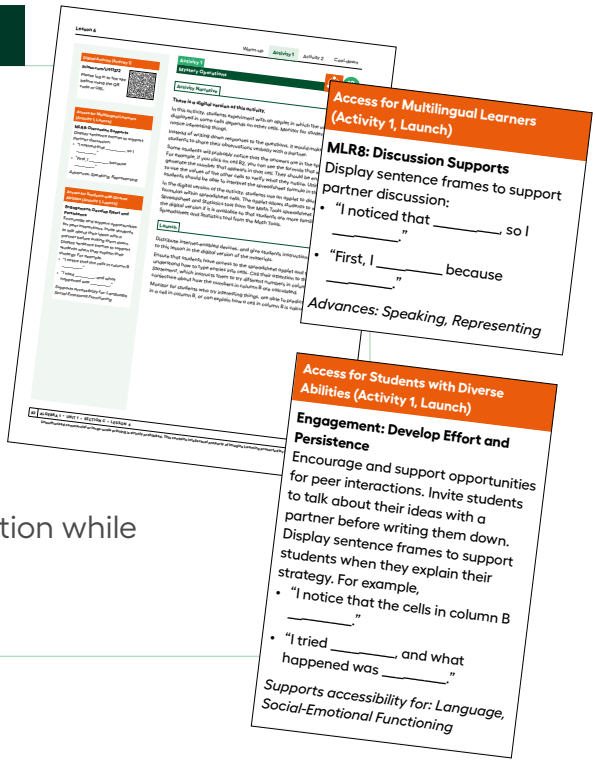
Access and Equity Built into Every Lesson

Language, discourse, and task design work together to ensure every student can participate, contribute, and build understanding.

Language Supports That Enable Participation

Students learn mathematics by talking about mathematics, so language development is built into instruction, not treated as a separate support.

- **Sentence frames and stems** support mathematical communication
- **Language goals** clarify how students explain and justify their thinking
- Structured discussion **routines** and **teacher questions** support student participation while advancing student thinking



Mathematical Language Routines (MLRs)

Stronger and Clearer Each Time	Collect and Display	Critique, Correct, Clarify	Information Gap
Co-Craft Questions	Three Reads	Compare and Connect	Discussions Supports

MLRs create structured opportunities for students to speak, listen, read, and write about mathematics, building understanding and language development.

- Students move from independent thinking to discussion and whole-class sharing
- Supports are built directly into lessons, with additional targeted language supports available as needed

Designed for Access and Multiple Entry Points

Tasks and lessons are designed so all students can engage in meaningful mathematics without lowering expectations.

- Real-world contexts connect learning to students' lives
- Multiple representations and strategies are encouraged and valued
- Flexible structures (small groups, whole class) support diverse learners



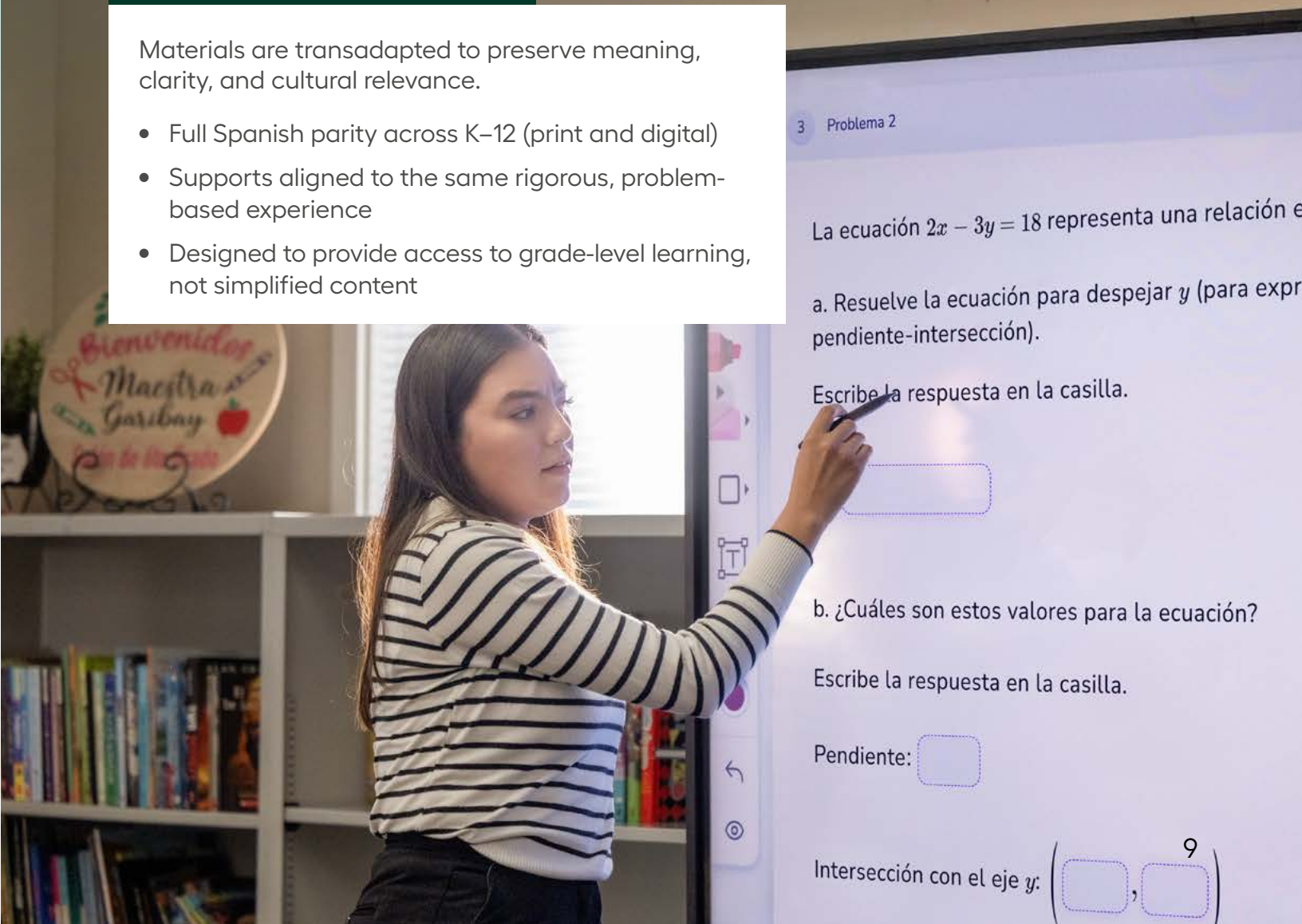
Algebra 1

Inspire Math Videos *introduce meaningful, real-world contexts that anchor learning throughout the unit.*

Spanish Access with Full Parity

Materials are transadapted to preserve meaning, clarity, and cultural relevance.

- Full Spanish parity across K–12 (print and digital)
- Supports aligned to the same rigorous, problem-based experience
- Designed to provide access to grade-level learning, not simplified content



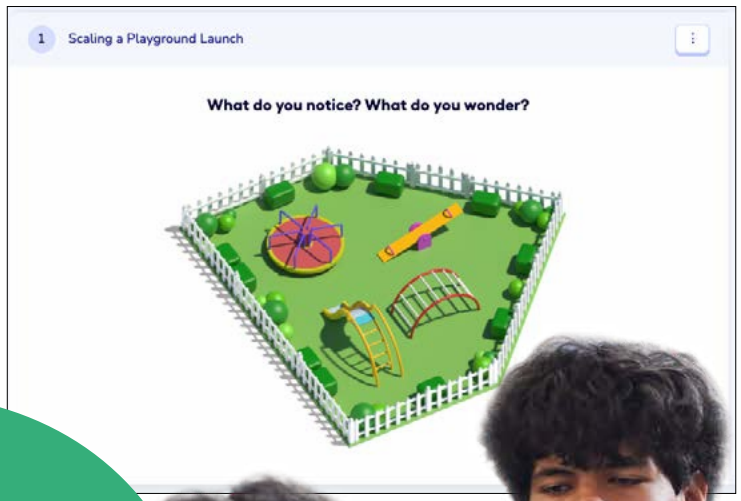
Mathematical Modeling that Feels Authentic

Students use mathematics to analyze real situations, make assumptions, test ideas, and communicate conclusions.

Mathematical Modeling Prompts

Mathematical modeling prompts give students opportunities to apply mathematics in open, authentic situations where there may not be a single correct pathway or answer.

These experiences help students see mathematics as a tool for understanding the world, not just solving textbook problems.

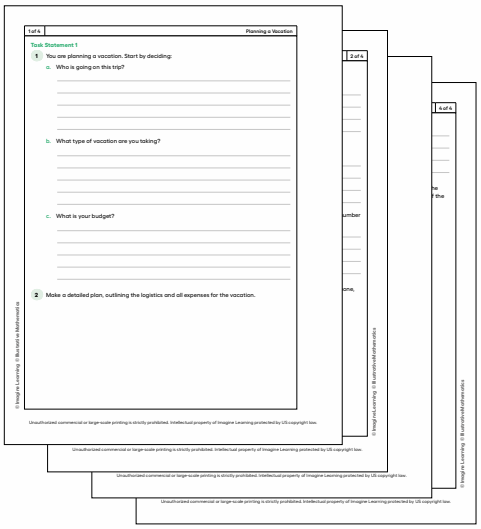


More Than Word Problems

Mathematical modeling asks students to make decisions, define assumptions, evaluate information, and justify conclusions in authentic situations.

Students:

1. Define the problem
2. Identify variables and assumptions
3. Formulate a model
4. Analyze and compute
5. Interpret and validate conclusions
6. Communicate reasoning



Modeling Through Collaboration

Students work together to test assumptions, analyze information, refine models, and communicate conclusions.

Assessment That Supports Instruction

Assessment in Imagine IM is built into learning, providing continuous insight into student thinking and progress.

Lesson-Level

- Instructional Tasks
- Observations
- Digital Task Statements
- Cool-Downs
- Practice Problems

Section-Level

- Section Checkpoints

Unit-Level

- Check Your Readiness
- End-of-Unit Assessment
- End-of-Course Assessment

Insight During Instruction

Built-in assessment opportunities help teachers understand student thinking and adjust instruction in real time.

- **Knowledge Checks and Check Your Readiness** surface prior knowledge
- **Instructional tasks and CueThink activities** provide insight into student thinking
- **Cool-downs** offer quick checks for understanding
- **Section Checkpoints** track progress toward goals
- **Practice problems and additional practice sets** reinforce and reveal understanding during learning
- **Performance Tasks** let students apply their learning and demonstrate problem-solving skills.

Assessing Understanding Across the Curriculum

Assessments provide insight into student understanding and growth.

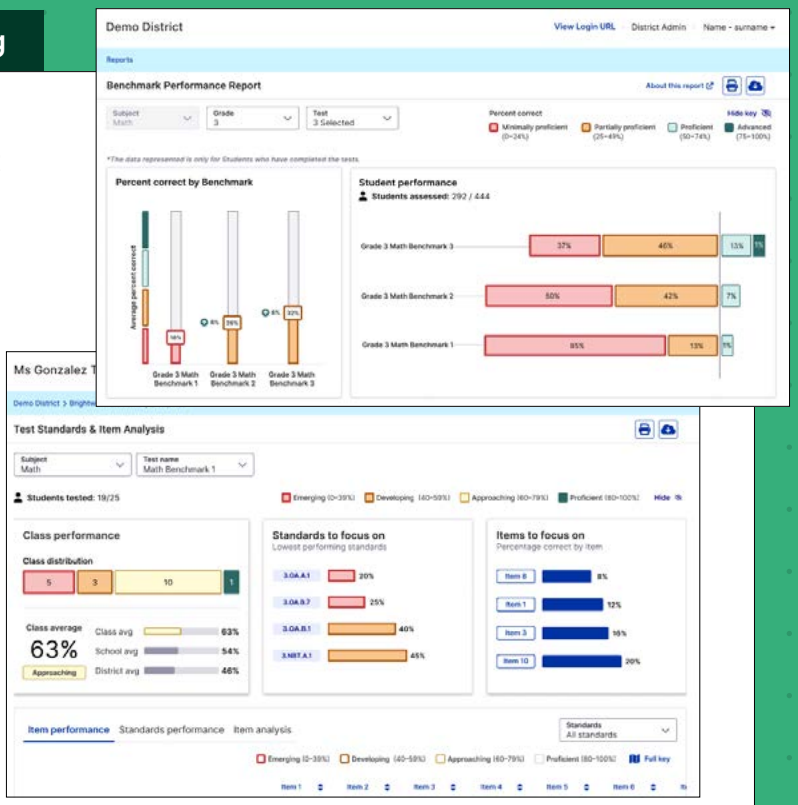
- **End-of-unit assessments** measure depth of understanding
- **End-of-course assessments** evaluate cumulative learning
- **Explorations** provide open-ended opportunities to apply and extend thinking

A Complete Picture of Student Learning

Imagine IM reveals student thinking during instruction. Imagine Assessment extends that insight, showing progress, impact, and growth over time.

- **Measure:** Benchmarks (Grades 3–8) measure proficiency and transfer beyond the curriculum
- **Validate:** Formatives inform instructional adjustments and monitor progress toward mastery
- **Grow:** Diagnostics identify readiness and track growth over time

imagine assessment

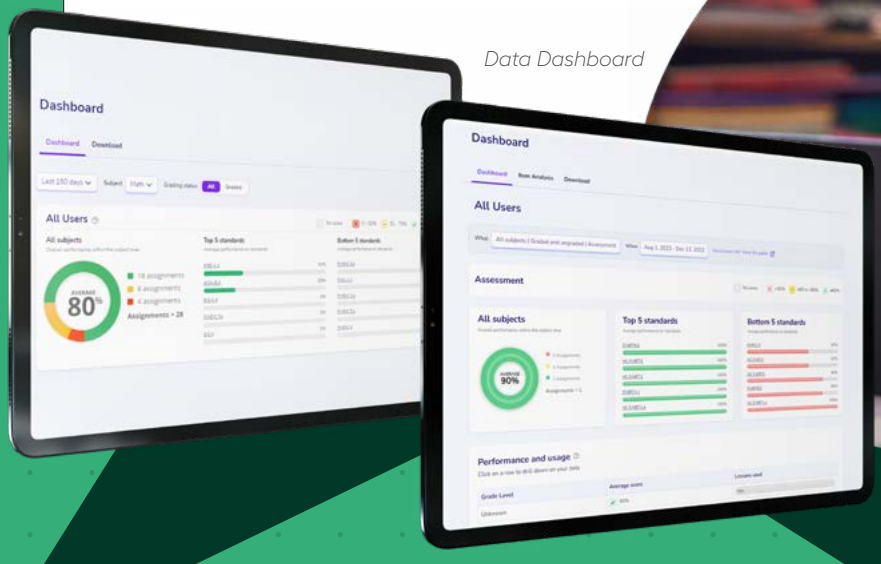


Test Standards and Item Analysis

Putting Data to Work

Clear, actionable reporting helps teachers respond and leaders monitor progress.

- Item-level analysis highlights where students need support
- Standards reporting identifies priority concepts



Data Dashboard



See Student Thinking

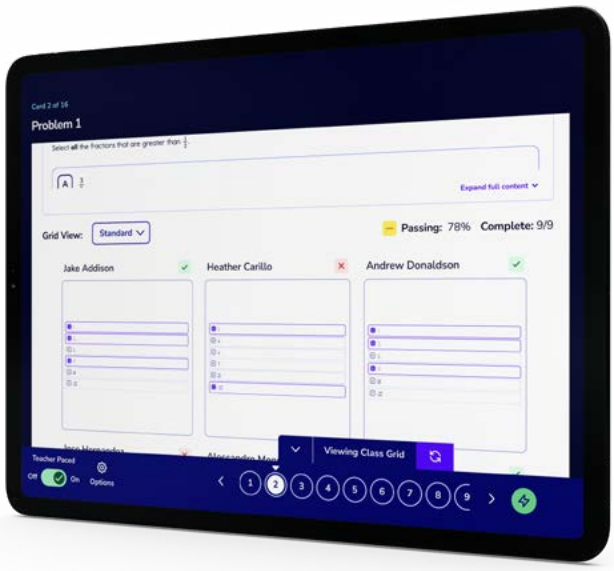
A solution designed to help teachers:

See student thinking ▶ Respond with targeted instruction ▶ Personalize learning

See Student Thinking During Instruction

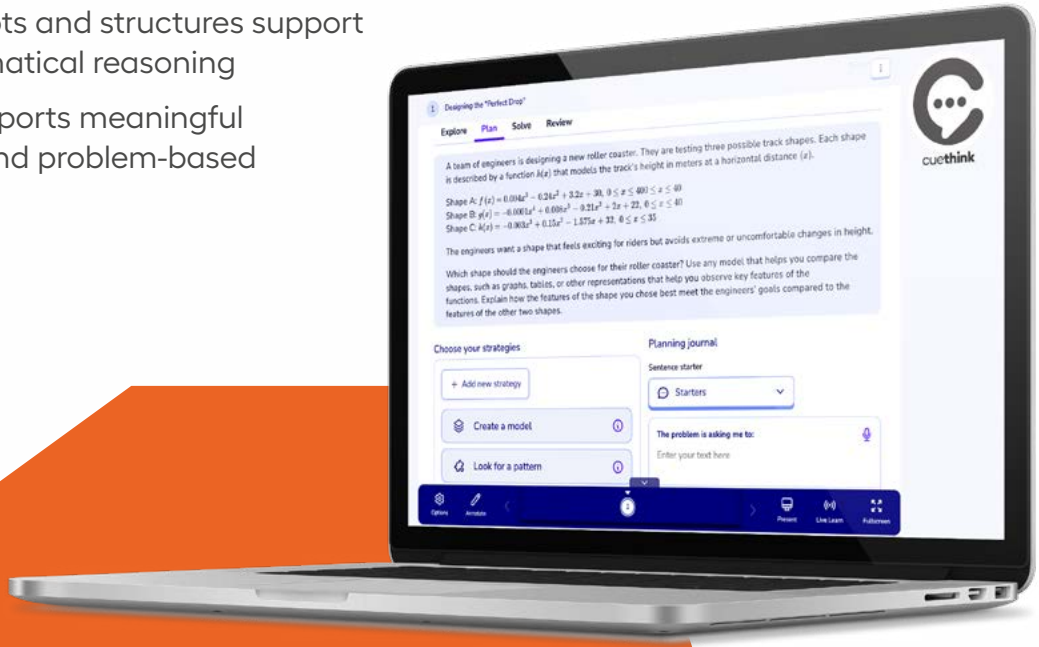
LiveLearn + Student Response Grid: See how every student is thinking in real time.

- View responses from the entire class at once, not just those who raise their hands
- Quickly identify patterns and levels of understanding
- Adjust instruction on the spot to keep learning on track



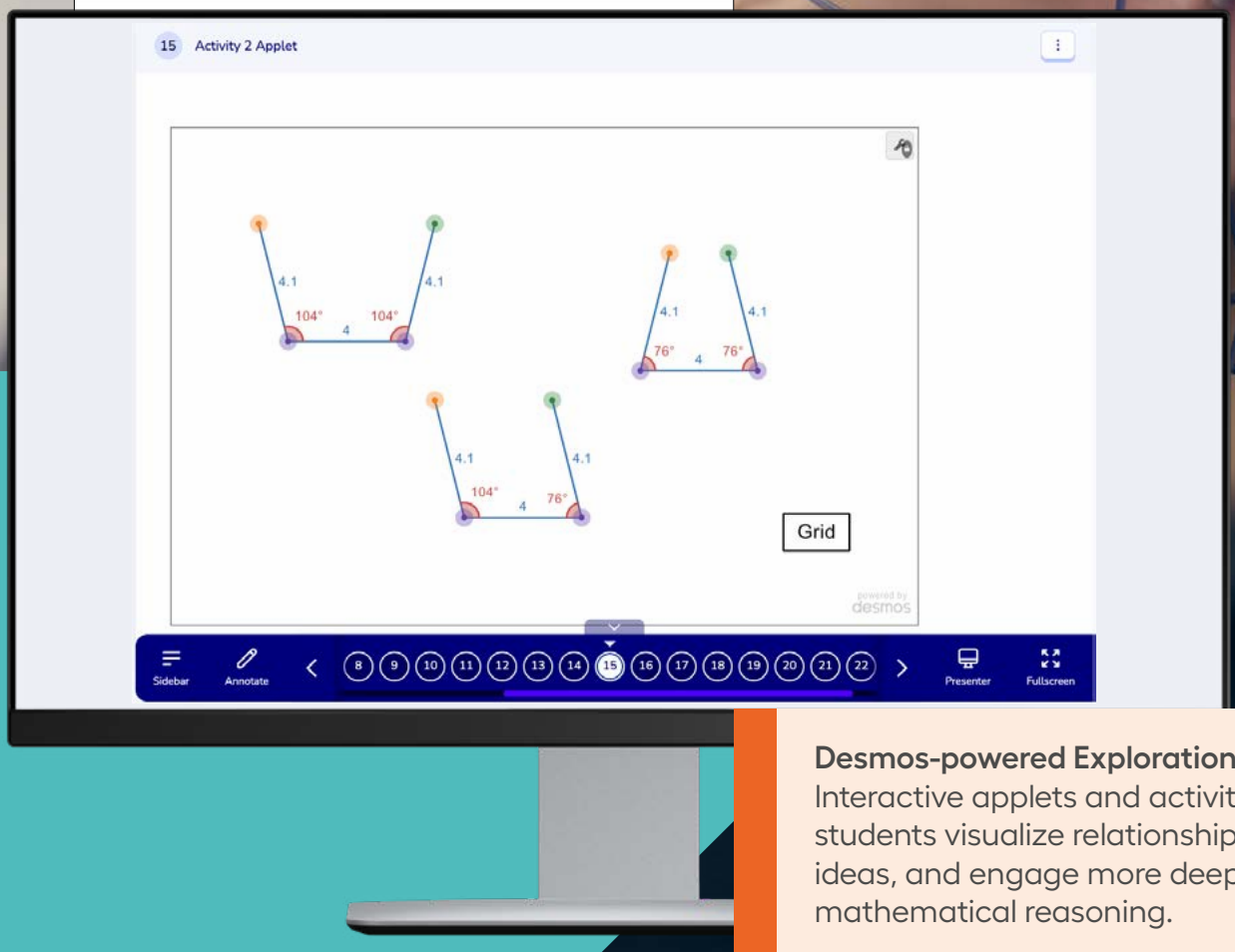
CueThink: Make student reasoning visible.

- Students use digital tools to develop problem-solving skills and show their thinking
- Built-in prompts and structures support clear mathematical reasoning
- CueThink supports meaningful discussions and problem-based instruction



Responsive Teaching, Supported by Technology

- Assignable digital lessons, including interactive tasks powered by Desmos
- Projection-ready classroom tools
- Embedded supports for facilitation and discussion
- Real-time visibility into student participation



Desmos-powered Exploration
Interactive applets and activities help students visualize relationships, test ideas, and engage more deeply in mathematical reasoning.

Turn Insights Into Instructional Action

Gives teachers clear next steps to support every learner.

Seeing how students are thinking is just the start. Imagine IM helps teachers take the next step, translating insights into targeted, aligned instruction.

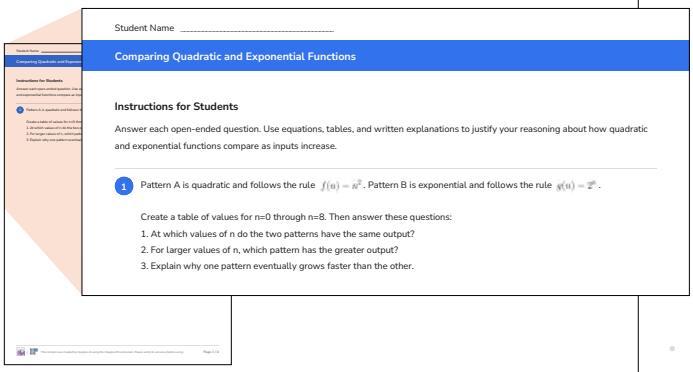
Support for Every Lesson, Every Day

Imagine ClassMate: AI-powered tools support planning, instruction, and communication, grounded in the Imagine IM curriculum and aligned to best practices.



Math Practice Creator:
Differentiate practice in minutes with curriculum-aligned activities tailored to your students' needs and interests.

- Practice aligned to specific learning needs
- Differentiated for individuals or groups
- Connected directly to current lesson content
- Download and print the student worksheet, answers, and modeled answers


Student Name _____

Comparing Quadratic and Exponential Functions

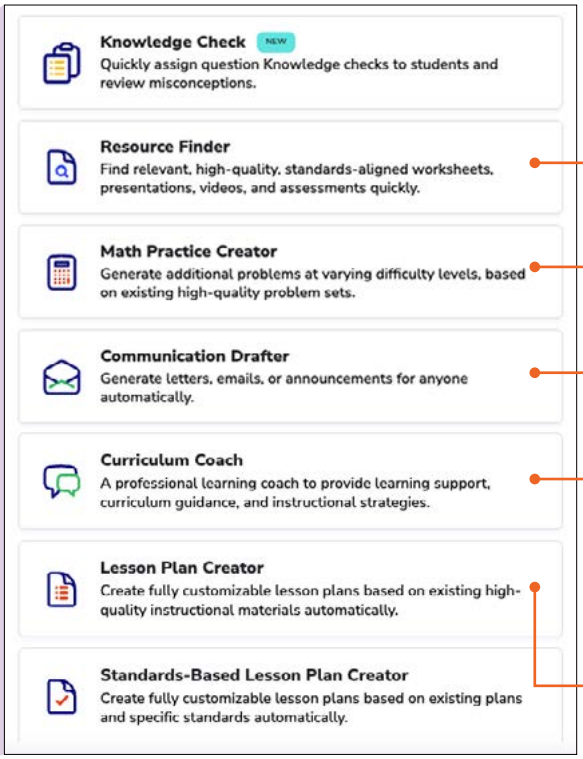
Instructions for Students

Answer each open-ended question. Use equations, tables, and written explanations to justify your reasoning about how quadratic and exponential functions compare as inputs increase.

1 Pattern A is quadratic and follows the rule $f(n) = n^2$. Pattern B is exponential and follows the rule $g(n) = 2^n$.

Create a table of values for n=0 through n=8. Then answer these questions:
1. At which values of n do the two patterns have the same output?
2. For larger values of n, which pattern has the greater output?
3. Explain why one pattern eventually grows faster than the other.

Math Practice Creator Worksheet



Practice and Differentiation

Resource Finder: *Locate aligned materials and supports when needed*

Math Practice Creator: *Generate targeted practice aligned to student needs*

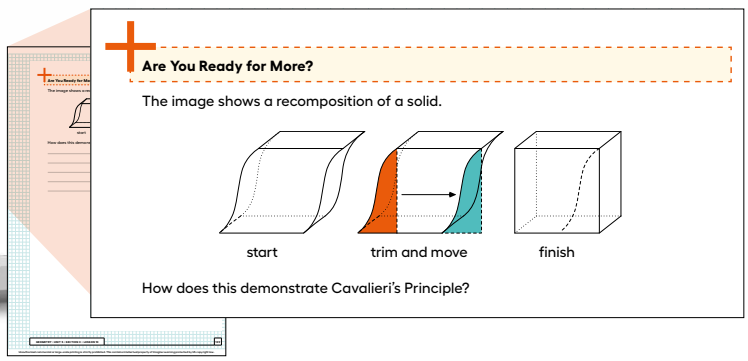
Communication

Communication Drafter: *Draft family communication quickly and clearly*

Planning and Instruction

Curriculum Coach: *Get guidance aligned to the lesson and instructional goal*

Lesson Plan Creator: *Build or refine lesson plans grounded in IM design*


Are You Ready for More?

The image shows a recomposition of a solid.

start trim and move finish

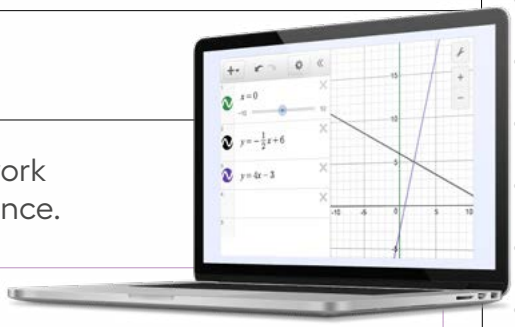
How does this demonstrate Cavalieri's Principle?

Are You Ready for More? problems help teachers extend learning with open-ended challenges that deepen students' mathematical thinking.

Instructional Materials and Teacher Supports

Everything teachers need to plan, teach, and adapt instruction, designed to work together seamlessly.

A Complete, Connected System



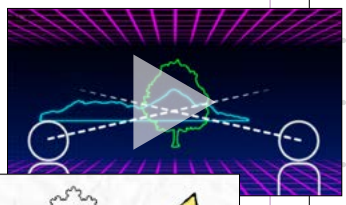
Print, digital, and hands-on components are designed to work together — so teachers can teach with clarity and confidence.

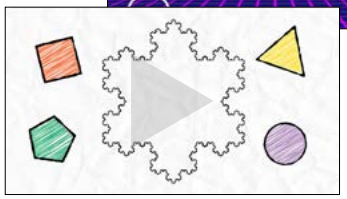
Plan

- Teacher Course Guide (program overview, pacing, standards alignment)
- Teacher Guides
- Learning Narrative videos
- Unit Dependency Charts
- Projectable and Editable Lesson Cards
- Downloadable lesson slides (Google + PowerPoint)

Teach

- Live Learn with the Student Response Grid
- Annotation tool
- Digital tasks
- Desmos activities
- Inspire Math videos (K–12)





Assessments

- **Imagine ClassMate AI** tools for teachers: Math Practice Creator, Lesson Plan Creator, Curriculum Coach, Resource Finder, and Communication Drafter



Extend Learning

- Family Support Hub
- Family letters in 11 languages
- Digital practice



Planning and Implementation Support

Teachers are supported at every stage — from planning to facilitation — with clear, practical guidance.

- **Learning Narrative videos** explain the "why" behind each unit
- **Lesson example videos** show what Year 1 and Year 2 implementation might look like in real classrooms
- **Embedded supports** provide guidance in the moment — not after the fact

Tools for Flexible Instruction

Teachers can adapt lessons while maintaining the integrity of the curriculum.

- **Digital lesson cards** can be edited, assigned, or shared
- Lessons are **projection-ready** for in-class or remote instruction
- **Print and digital components** stay aligned across formats

Designed for Real Classrooms

Tools support responsive teaching and student engagement without adding complexity.

- **Live Learn with the Student Response Grid** enables real-time interaction and visibility into student thinking
- **Annotation tools** support modeling and discussion



Student Experience and Learning Tools

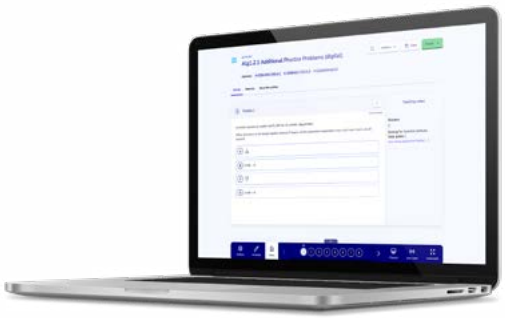
Students engage in meaningful mathematics through connected tools and experiences designed to support creative thinking, collaboration, and understanding.



Student Materials and Learning Tools

A complete set of print, digital, and interactive resources supports students in making sense of mathematics.

Additional digital practice problems available for every lesson



Consumable Student Workbooks (English and Spanish) with space for thinking and embedded lesson supports



Digital lessons and tasks with Desmos activities and assessments



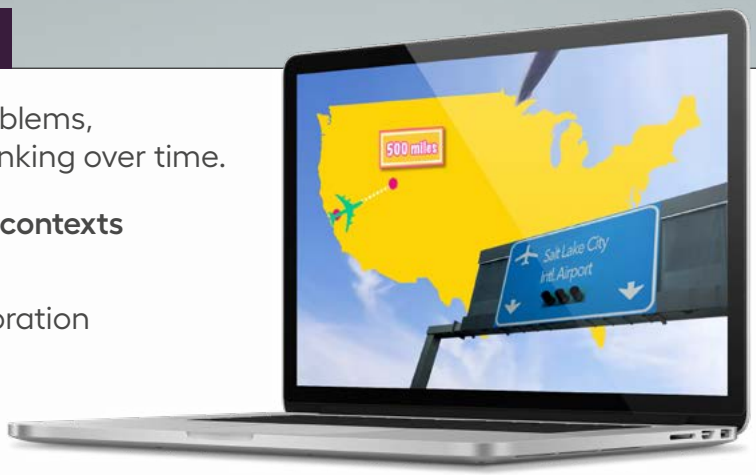
CueThink, where students capture and explain their mathematical reasoning



Learning That Builds Understanding

Students learn by doing, exploring problems, discussing ideas, and refining their thinking over time.

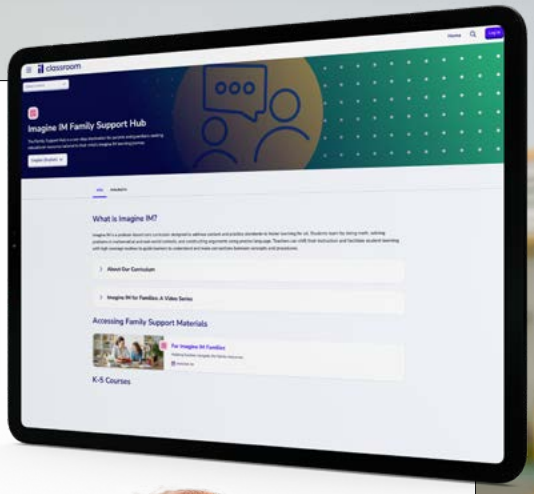
- **Inspire Math videos** and **real-world contexts** connect math to students' lives
- **Structured routines** support collaboration and discourse
- **Visual models** and **hands-on tools** deepen understanding



Supporting Students and Families

Learning continues beyond the classroom with resources designed to keep families connected and engaged.

- **Imagine IM Family Support Hub** with videos, guidance, and at-home activities
- **Family communication tools**, including letters available in 11 languages
- Guidance to help families understand **how math is taught** and **support learning at home**



Built for Your Standards, Designed for Your Classroom

Imagine IM aligns to state standards and instructional priorities while maintaining the integrity of problem-based instruction.

Aligned to What Matters Most

- Fully aligned to state standards and Mathematical Practices
- Supports district priorities for rigor, discourse, and conceptual understanding
- Designed around research-based, effective teaching practices that drive student learning



Implementation Support and Proven Impact

Districts across the country are seeing meaningful gains in student understanding, engagement, and achievement with Imagine IM.

Results That Matter

- Increased student engagement through problem-based instruction
- Stronger conceptual understanding and mathematical reasoning
- Evidence of growth across diverse districts and student populations

Scan to see evidence of Imagine IM's impact.

"Our math performance has skyrocketed! We had an increase of 30% of our students on or above grade level from fall to spring, and that is absolutely due to having a high-quality curricular resource in front of our students and giving our teachers the support that they need to implement that well."

Dr. Nicole R., Executive Director of Curriclum and Instruction, CCSD59

A Connected System of Support

- Sustained implementation planning and partnership from onboarding through ongoing use
- Ongoing professional learning grounded in real classroom practice
- Coaching and resources that support teachers over time



imagine IM®

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