CARNEGIE LEARNING

CALIFORNIA ClearMath®

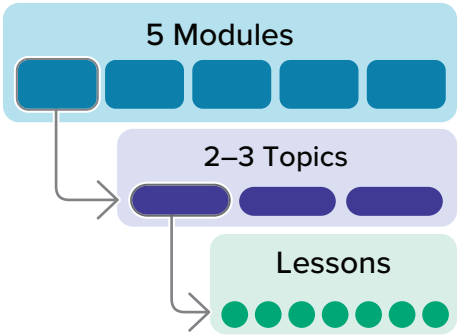
6–8 Program Description

California ClearMath 6–8 is a core math program designed for rigorous, coherent, and equitable instruction. Aligned with the California Mathematics Framework, it fosters mathematical habits of mind through problem solving, reasoning, and discourse. Students engage in meaningful discussions, articulate their thinking, and explore diverse perspectives. The program provides tailored strategies and language resources to ensure multilingual learners and diverse classrooms thrive.

California ClearMath 6–8 fosters student-centered classrooms where students take ownership of their learning with teacher support and guidance. Engaging, practical elements make math instruction effective, including hands-on manipulatives, digital interactives, and engaging classroom discourse. Its unique instructional design provides time for differentiated instruction, ensuring all students have opportunities to deepen their understanding. Through active engagement in meaningful mathematical experiences, students build confidence and grow as mathematical thinkers.

Course Design and Alignment

California ClearMath is organized into modules that help teachers focus on Big Ideas, with topics that build on one another to present the mathematics as a connected and meaningful progression. Grounded in the grade-level expectations defined by the California Common Core State Standards for Mathematics (CA CCSSM), the program regularly engages students in the Standards for Mathematical Practice by encouraging them to problem-solve, reason, and justify their thinking.



Instructional Model and Teaching Cadence

California ClearMath follows a unique instructional model that blends Concept Lessons and Re-Engagement Lessons to support learning and reflection. In **Concept Lessons**, students build new understanding through exploration, problem solving, and discourse. Following a series of Concept Lessons, **Re-Engagement Lessons** reinforce learning by connecting classroom instruction to individual problem solving and practice. MATHia serves as the primary instructional tool in these lessons.

MATHia® is an intelligent, adaptive learning tool that personalizes instruction and provides real-time data insights, ensuring students receive the reinforcement they need while building fluency and confidence.

The **MATHbook Student Edition** drives the learning journey, interleaving Concept Lessons and Re-Engagement Lessons to help students develop and deepen their understanding of mathematics.

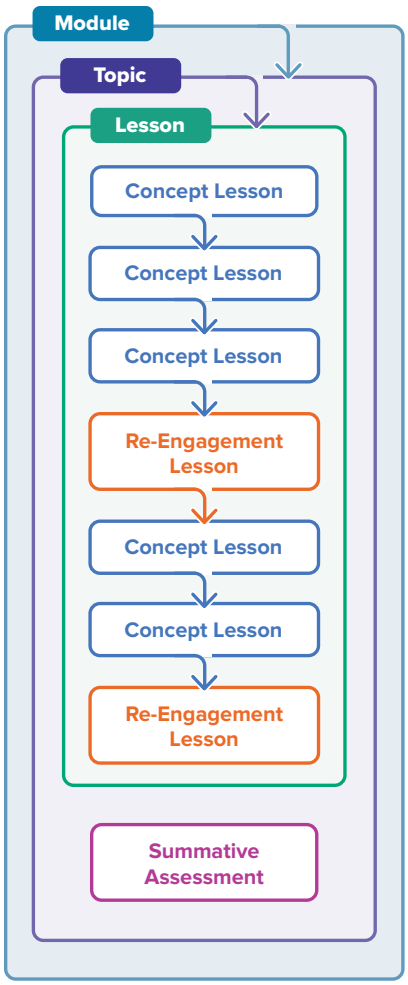
Concept Lessons

- Exploring new mathematical ideas through tasks and activities
- Learning together as a community
- Teacher-facilitated
- One to three 45-minute sessions
- Includes practice opportunities to reinforce concepts and skills

Re-Engagement Lessons

- Revisiting and strengthening key mathematical ideas through the MATHia Playlist for the topic
- Learning individually, self-paced
- Teacher-monitored
- One 45-minute session
- Includes small group intervention opportunities

Sample Module Structure



During each lesson, students will experience a three-part lesson structure.

Activate

An introductory activity that taps into prior knowledge and real-world experiences

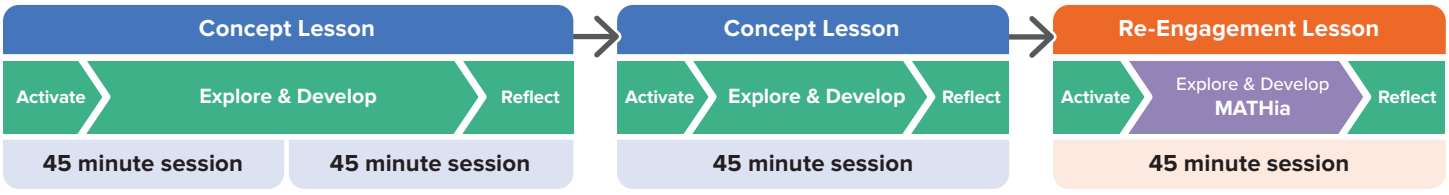
Explore & Develop

Interactive activities where students engage in meaningful mathematics in an environment where collaboration, conversations, and questioning are routine practices

Reflect

A concluding activity where students reflect on and evaluate what they have learned and where teachers can collect formative assessment data

A sample instructional journey showing a multiple-session Concept Lesson:



With MATHbook guiding their learning path and MATHia personalizing their progress, students experience math in a way that is meaningful, lasting, and empowering.

Inside the Student Experience

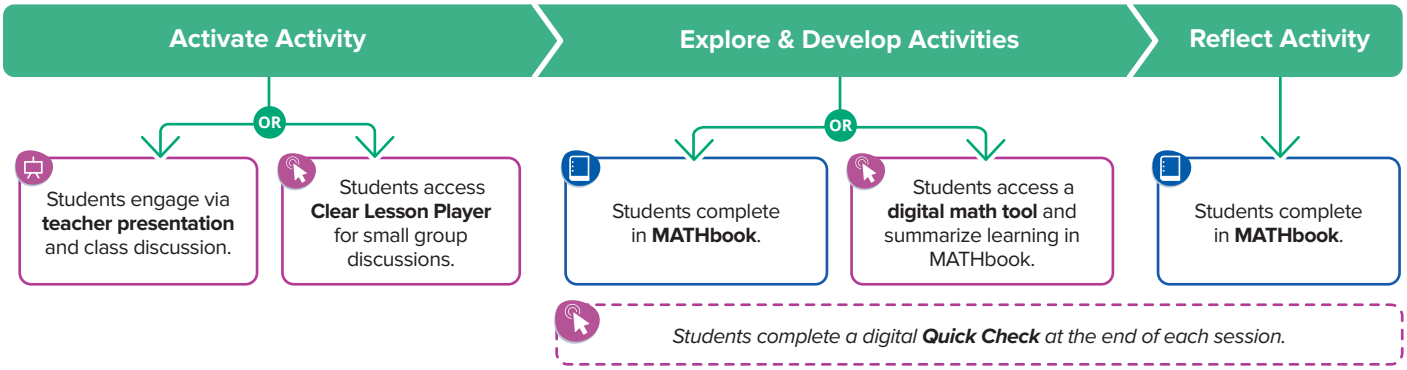
The **MATHbook Student Edition** is a consumable text that provides space for students to record their thinking, creating an artifact of their problem-solving, reasoning, and discourse. More than just a workbook, MATHbook structures new learning through meaningful tasks—some completed on the page, others brought to life through interactive, digital experiences. It then provides purposeful pauses for students to build on their classroom experiences through the personalization offered in the MATHia software.

Module and Topic Introductions set the stage for learning by previewing key mathematical concepts, listing the MATHia Playlist, and connecting to historical figures, different professions, or modern-day examples.

Topic Self-Reflections provide students with a structured way to track their progress and confidence with key concepts and skills. Students reflect on their understanding of I Can statements, reinforcing a growth mindset and encouraging ownership of their learning.

Concept Lessons integrate engaging activities and digital experiences, allowing students to explore, discuss, and apply mathematical ideas in multiple ways. Throughout lessons, students follow directions to go online and use interactive tools, including Desmos calculators, to complete activities and practice problem solving. Assigned digital activities appear in the Clear Lesson Player, which enhances engagement by allowing students to complete tasks digitally, visualize concepts, and access built-in scaffolds for support.

A visual representation of how students may experience learning mathematics through print and digital interactions in a Concept Lesson.



Teachers use data from the digital Quick Checks and the Reflect Activity at the end of a Concept Lesson to identify students who may benefit from additional support in a Re-Engagement Lesson through targeted small-group instruction.

Practice and Apply

At the end of each Concept Lesson, there is a Practice and Apply page that supports students in deepening their understanding of new mathematical concepts through a mix of interactive and independent practice. Each Practice and Apply includes these components with recommendations for how to structure practice when there are multiple sessions.

- **Interactive Assignment:** Digital exercises that engage students in reflecting on and practicing concepts introduced in the lesson. Each assignment includes four sections: Journal, Remember, Practice, and Stretch.
- **Interactive Skills Practice:** Digital problem sets that provide targeted practice, allowing students to strengthen the skills encountered in the lesson.
- **Independent Practice:** Additional practice sets within the Student Edition that offer further opportunities for students to apply what they've learned in Concept Lessons.

Personalized Learning and Intervention

During the **Re-Engagement Lesson**, the primary goal of the Explore and Develop phase is for students to work independently on their personalized MATHia Playlist. Teachers can use this time to pull small groups of students needing additional support or time on key concepts through short, targeted center activities.

All students work independently in MATHia, moving at their own pace through personalized workspaces. While some are working on concepts aligned with recent lessons, others are ahead or still building mastery of earlier topics. AI-driven support adapts to each student's performance, providing just the right level of challenge and reinforcement.

Clarify

Any students who demonstrated a misunderstanding of key math concepts or skills from the previous Concept Lessons, as identified through interactive Quick Checks or Reflect activities

Reteach

Any students who were absent and need to catch up on key learning from previous lessons through interactive videos or other resources

Effective Planning and Teaching Supports

California ClearMath 6–8 provides a suite of implementation notes, embedded supports, and assessments that empower teachers to facilitate high-quality instruction for a community of diverse learners.

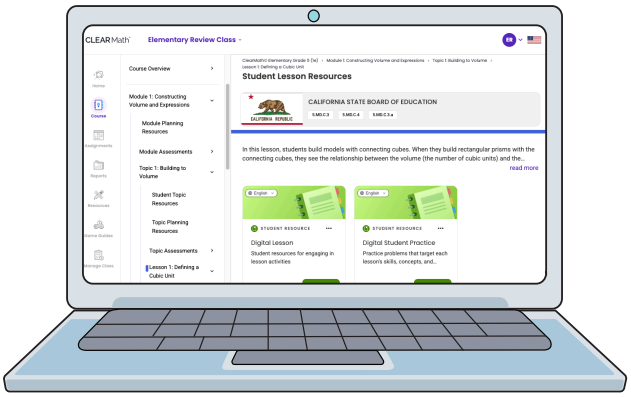
Teacher's Implementation Guide (TIG): A comprehensive resource for effective planning and instruction, providing module, topic, and lesson overviews, along with CA CCSSM alignments and detailed facilitation notes that guide teachers in delivering California ClearMath content. This guide helps educators navigate instructional strategies, implement differentiation, and ensure coherence across lessons, making it an essential tool for daily planning and long-term success.

- The Teacher's Implementation Guide Overview (TIGO) outlines the instructional model, course structure, and lesson planning supports, while providing guidance on assessments, differentiation, and data-driven instruction. With a focus on equity, it equips teachers with the tools for effective, standards-aligned instruction.
- Module and Topic Overviews illustrate the connection between CA CCSSM and mathematical development across the topics that make up each module. They describe how the learning goals tend to Big Ideas and Content Connections, ensuring a clear and coherent progression of concepts. These tools help teachers recognize the mathematical arc of the course and prepare to support all students to make meaningful mathematical connections.
- Lesson Facilitation Notes help teachers plan and facilitate instruction effectively. They include lesson overviews, pacing guides, materials lists, and grouping suggestions to guide the flow of instruction aligned to learning goals. Each lesson includes point-of-use notes, purposeful questions, and embedded supports to enhance student learning and accommodate diverse needs.

Clear Learning Center (CLC)

The CLC offers teachers digital access to California ClearMath, making all print resources available online for viewing, downloading, and assigning anytime, anywhere. The CLC also includes additional tools to support instruction. These are a few of the many resources available.

- Mathematical Progressions and Connections
- Assessment Suite and Guide
- MATHia Workspace Previews
- Data Insights
- Multilingual Learner Support Handbook
- Instructional resources to support readiness and intervention



Equitable Instruction for Diverse Classrooms

Grounded in Universal Design for Learning (UDL), California ClearMath equips teachers with strategies to make learning accessible for all students while fostering executive functioning skills that support their overall development. By embedding social and emotional learning and connecting to students' lived experiences, ClearMath creates opportunities for every student to succeed in math.

Embedded Supports within lesson facilitation notes support teachers to meet diverse needs and recognize the cultural, linguistic, and community knowledge students bring. Lessons incorporate authentic real-world contexts and multicultural perspectives, helping educators create an inclusive classroom environment that honors students' experiences and identities, ensuring every learner feels valued and supported.

Empowering Multilingual Learners Through Asset-Based Supports

California ClearMath embeds language development into instruction in various ways. The Teacher's Implementation Guide and the Multilingual Learner Support Handbook provide teachers access to multilingual learner resources and leveled scaffolds.

Multilingual Learner Support Handbooks include topic- and lesson-level resources that provide a holistic framework and strategies for supporting multilingual learners.

Math Language Routines (MLR): Each Lesson Overview includes a recommendation for incorporating a Math Language Routine into the lesson. The Topic Overviews highlight a Math Language Routine you can use in Lesson 1. These research-based routines support students in developing mathematical understanding and the language to express their reasoning.

Language Goals with Leveled Scaffolds and Support: Each Concept Lesson includes a language goal that integrates mathematical reasoning with language development, aligned with California's English Language Development Standards. The Multilingual Learner Support Handbook provides leveled scaffolds to help students at the Emerging, Expanding, and Bridging proficiency levels achieve each lesson's language goal.

Comprehensive Assessment and Data-Driven Instruction

California ClearMath provides a balanced assessment system with formative and summative assessments to monitor student progress. Assessment tools situated before, during, and after the learning experiences offer a through-line of data helping teachers make informed decisions for their students.

The Assessment Suite includes course-level, readiness, formative, and summative assessments for teachers to collect data and monitor progress.

Course Assessments	Module Assessments	Topic Assessments	Lesson Assessments
Beginning-of-Year	ReadyCheck	ReadyCheck	Purposeful Questions
Middle-of-Year	End-of-Module	Pre- and Post-Tests	Reflect activities
End-of-Year		End-of-Topic Tests	MATHia Data Insights
		Standardized Test Practice	
		Performance Tasks	

MATHia Data Insights

MATHia collects detailed data insights into students' progress, offering a clear view of their learning journey. These insights are valuable for assessing student learning and making informed instructional decisions.

Teachers can utilize a tool called LiveLab during each **Re-Engagement Lesson** for in-the-moment, actionable data to support students as they're working in MATHia.

After **Re-Engagement Lessons**, teachers can access Data Insights in the Clear Learning Center to analyze student performance. This information allows teachers to make instructional adjustments and consult with students as needed.

Interpreting and Responding to Assessment Data

The Assessment Guide, helps teachers analyze student data, identify learning needs, and take actionable next steps to inform instruction. It includes assessment blueprints outlining standards, item types, and depth of knowledge, along with targeted instruction recommendations based on student performance. These recommendations may include small group activities, MATHia workspaces, MATHstream interactive videos, or Skills Practice problem sets. The guide suggests ways to group students, celebrate success, provide enrichment, and offer additional practice beyond the classroom.

WWY225444