CARNEGIE LEARNING

LONG + LIVE + MATH

OUR CHALLENGE

What are we facing?

Ask most math educators and they'll tell you that math learning is changing.

That effective math teaching is about more than memorizing formulas and calculating the right answer. It's about developing the deep conceptual understanding students need to really learn math, prepare for college, and succeed in careers.

The most forward-thinking educators will tell you that this change is significant, but alone, it's not enough.

Collectively, we need to raise our expectations of math education even further and demand even more. In addition to deep conceptual understanding, students must also learn to collaborate, communicate, think critically, and persevere when they face challenges.

Most educators will tell you that making this kind of change happen is difficult.

That it takes time and resources already in short supply. Even more daunting is that it requires a shift in mindset for students, teachers, and administrators alike — not just in terms of what resources to use, but in the ways we define the teacher and student relationship, set goals, and measure against them. They'll tell you that even when change is underway, there is always a need to do more, do it faster, and make it easier.

Great change can only come from great change.

We need a better way to do bigger things. A way that asks teachers to build on their own knowledge, abilities, and strengths to hone their craft. A way that is as do-able as it is effective. That's where Carnegie Learning comes in.

We make better math learning happen.

OUR PURPOSE

The Carnegie Learning Manifesto

We believe that better math education is about more than memorizing equations or performing on tests.

It's about delivering the deep conceptual learning that supports ongoing growth and continued development.

We believe that better math learning is important for all students.

It helps them become creative problem solvers, critical thinkers, life-long learners, and more capable adults.

We believe all students can learn math the right way.

And by right, we mean they can really learn and understand it, as long as teachers believe in them, expect them to participate, and encourage them to own their learning.

We believe all teachers can teach math the right way.

And by right, we mean they can really know the math and constantly cultivate their own mindset for teaching it.

The key? Getting the resources and support they need to build cultures of collaborative learning.

We believe our products and services can help accomplish this.

By working together with the educators and communities we serve, we guide the way to better math learning.

LONG + LIVE + MATH

OUR IDENTITY

Who is Carnegie Learning?

Carnegie Learning is a transformational math education company.

To support both group and individual learning, we provide consumable textbooks and intelligent software for grades 6-12, as well as professional learning and data analysis services for teachers across the K-12 spectrum.

Our solutions are designed to transform the math classroom, putting better math learning within reach for both teachers and students.

The right way to
(learn) + (teach) + (transform) math.

We don't just think differently. We help educators and students think differently, too. We don't just talk about change. We enable it, accelerate it, and help it take flight.

When you see our solutions in full flight, you'll see transformation everywhere. Teachers are able to step away from the blackboard, instigate questions, facilitate discussion, and guide collaboration. Students are invested, accountable, and confident. They feel safe enough to learn from their peers as well as from their own individual experiences, challenges, and successes. They become problem solvers, critical thinkers, and curious, resilient learners, able to apply knowledge to other subjects, to other learning environments, and the wider world around them.

That's transformation, and that's where the magic happens.

How do we help make this transformation happen?

Instructional Approach: Our approach combines cognitive and learning science with practical instruction to develop conceptual math understanding, as well as deeper learning skills.

Research: Our ongoing research (both internally and as leaders in the wider research community) helps us adapt and continually improve our solutions and services.

Learning Blend: Our comprehensive offering provides all the resources and flexibility teachers want, as well as the balance students need.

Support: We're all in. We're committed to helping you bring it all together in your classroom.

Instructional Approach

Our approach combines cognitive and learning science with practical instruction to develop conceptual understanding, as well as deeper learning skills.

Carnegie Learning's instructional approach is based upon the collective knowledge of our cognitive learning scientists, master practitioners, and ongoing research initiatives. Not only is it aligned with the most current math education standards, it's based on a scientific understanding of how people learn, and a real-world understanding of how to apply that science to conceptual math understanding, as well as deeper learning skills like the 4 C's.

It's not just smart, it's practical.

At its core, our instructional approach is based on three simple, yet critical components:

Engage: Our materials draw students in, activating their prior knowledge and experiences, presenting real-world examples, and facilitating collaborative classroom activities that generate curiosity and plant the seeds for deeper learning.

Develop: We offer rigorous and challenging opportunities for group and independent learning, helping teachers see where an individual student needs additional support and how best to adjust instruction to make progress and build confidence.

Demonstrate: Students are expected to bring it all together and show what they know. Ongoing formative assessment underlies the entire learning experience, driving real-time adjustments, next steps, insights, and measurements.

Research

Our ongoing research helps us adapt and continually improve our products and services.

Founded by cognitive scientists and computer scientists from Carnegie Mellon University, Carnegie Learning has been deeply involved in research from the start.

Our research extends far beyond our own walls, playing an active role in the constantly evolving field of cognitive and learning science. Our internal researchers collaborate with a variety of independent research organizations, tirelessly working to understand more about how people learn, and how learning is best facilitated. We supplement this information with feedback and data from our own products, teachers, and students to continuously evaluate and elevate our instructional approach, as well as its delivery.

Research not only informs our approach, it validates it.

In an independent "Gold Standard" study funded by the U.S. Department of Education and conducted by the RAND Corporation, the Carnegie Learning blended approach nearly doubled growth in performance on standardized tests relative to typical students in the second year of implementation.

That's not research-based. That's research-proven.

Learning Blend

Our comprehensive offering provides all the resources and flexibility teachers want, as well as the balance students need.

Carnegie Learning combines consumable textbooks, intelligent 1-to-1 tutoring software, and transformative professional learning and data analysis services into a comprehensive and cohesive math learning solution. Combined, our products and services provide a core math program that makes transformational learning possible for both teachers and students.

Supplementally, our software and professional learning and data analysis services can be used to enhance other core programs or provide additional support for struggling students or accelerated learning.

Our products and services are designed to **create balance** between:

Conceptual + Procedural Understanding

Group Learning + Independent Learning

Creative Exploration + Skill Mastery

Accessibility + Rigor

Smarter software that actually teaches math.

Other "adaptive" platforms simply serve up new problems until a student gets things right. MATHia is smarter, combining a sophisticated model of math skills and collecting literally thousands of data points as students work through multi-part — not multiple choice or single answer — problems.

MATHia isn't practice software. Rather, it's a math learning engine powered by cognitive science and research-proven instructional design. It constantly learns and adjusts, delivering personalized 1-to-1 tutoring and ongoing formative assessment every step of the way. The result? Better learning and deeper conceptual understanding.

HOW WE DO IT / OUR DIFFERENCE

Support

We're all in. **We're committed to helping you bring it all together in your classroom.**

We live to help educators realize their dream classroom. One where teachers facilitate, students participate, and meaningful learning happens.

Our experts remain engaged with customers throughout the process of implementation and beyond, providing responsive and personal support however it's needed — from modeling to coaching to encouraging.

Together, we make transformation happen.

Through in-person and online implementation support, our Professional Learning Transformers deliver strategies, first-hand insights, and training that help teachers cultivate their mindset, deepen content knowledge, and create student-centered learning environments where everyone thrives.

Working alongside our Professional Learning team, our Data Analysis Transformers help educators translate raw data into something much more valuable — an action plan. They don't just crunch numbers — they listen, make connections, and work alongside educators to drive real change.

That's the Carnegie Learning Way.
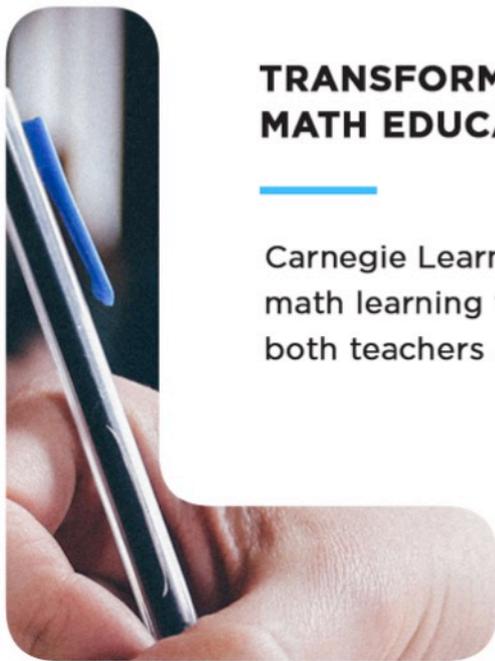
TRANSFORMING MATH EDUCATION

Carnegie Learning puts better math learning within reach for both teachers and students.