

Mastering the Math Needed *Beyond* Test Day

U.S. adults lack the basic skills to be college- and career-ready. It shows in the results of high school equivalency tests and international studies of adults' skill levels. Study after study reveals that our schools focus on mastering procedures rather than building math understanding. When students don't learn how numbers relate to each other or why a certain procedure works, they're often confounded by complex math problems.

EMPower® faces the issue head-on by consistently challenging students and teachers to extend their ideas of what it means to do math. It focuses on conceptual understanding, which students need to explore the more advanced concepts that create academic and career success. Students take part in the process of productive struggle, first applying problem-solving strategies, then exploring procedures for arriving at solutions. This process immerses and engages students in rich problem-solving investigations.

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One in three adults has less than basic skills, experiencing difficulty beyond counting, basic computation, and sorting.
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Source: Organization for Economic Co-operation and Development, Survey of Adult Skills (PIAAC) (2012).

EMPower lessons foster the eight Mathematical Practices described in the College and Career Readiness Standards.

Traditional Math Instructional Approach	The <i>EMPower</i> Conceptual Approach
Math is considered a collection of discrete skills.	Through carefully crafted, easy-to-follow teacher facilitation, students are led to make strong connections across mathematical concepts.
Students work independently because they are at different levels.	Students at multiple levels work in a collaborative environment, actively learning through reasoning and discussion.
Lessons lack real-world context.	Students solve problems that have relevant, real-world contexts, such as shopping, paying taxes, and remodeling a home.

To learn more, please contact:

Sales Representative:

Territory:

Email:

Phone:

Website:



Designed for Students Who Give School Another Try

EMPower is designed specifically for adult learners and out-of-school youth enrolled in:

- Adult basic education programs
- High school equivalency programs
- Developmental math programs at community colleges

Rooted in adult learning theory, *EMPower* focuses on developing competency in mathematical problem solving and communication by asking students to:

- Work collaboratively on open-ended investigations.
- Explain their strategies orally and in writing.
- Justify their answers in multiple ways.
- Enter into and solve problems in various ways.

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At first, EMPower was not something I wanted to do; but after the first TABE test, I saw all their scores went up. It didn't matter that I didn't want to do it, what mattered was that my students retained the information that they learned and were able to look at other problems and see patterns that would help them solve new problems.
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NYC Adult Education Teacher

Presenting *EMPower*[®] Plus

McGraw-Hill Education, in partnership with TERC, is proud to introduce *EMPower Plus*: an update to three of the original *EMPower Math*[®] titles. The update aligns *EMPower* more closely to the College and Career Readiness Standards, ensuring algebra readiness through:

- Stronger Connections: More emphasis is placed on the relationship between operations (doing and undoing).
- Emphasis on Equivalence: Stronger focus settles on the concept of equivalence, which facilitates the crucial skill of balancing equations.
- More Accessible Language: English language acquisition experts were engaged to make content more accessible to learners with different language backgrounds.



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