

MATH SUCCESS



Language Learners



million English language learners were enrolled in U.S. public schools — representing

English language learner.

- The Rise of ELLs

Million

just over 10% of the total student population. By 2025, it is predicted that nearly 1 out of

every 4 public school students will be an

In the 2013-14 school year, more than 4.9

ELLs are four times as likely to drop out of high school than native English speakers.

- The Math Achievement Gap

Since 1996, the average math scores for ELL 4th and 8th grade students has been consistently lower

Math achievement is the

reading skills, attention

#1 predictor of school

success. More than

than their non-ELL peers.

or behavior.



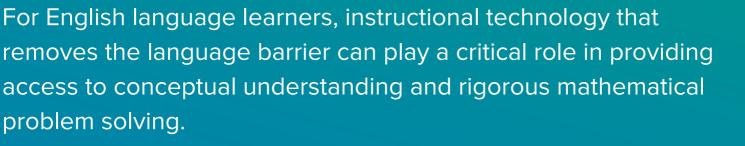


level, the most frequently cited problem by READING teachers was low student reading abilities. **Abilities** Language-heavy math instruction creates

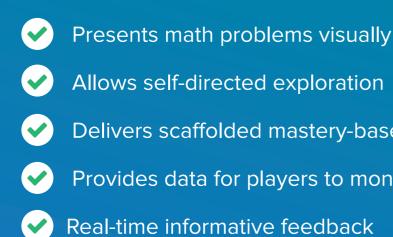
barriers for ELLs.

LOW

- Jor Students



For mathematics instruction at the elementary



Learn More:

problem solving.

Delivers scaffolded mastery-based learning Provides data for players to monitor their own progress

Features of Effective Math Technology for ELLs:

http://www.teachhub.com/teaching-math-without-words

- for Teachers
- **TEACHER**

Low-income schools — commonly with high STAFF ELL populations — **lose half their staff** every RETENTION 3 years. Increased levels of instructional support and training provided to new teachers has been shown to decrease their likelihood of leaving after the first year. Math technology should help teachers in the challenging task of providing carefully crafted, self-paced learning paths,

ANXIETY

their students, regardless of language or achievement level.

assisting teachers in meeting the individual needs of all of

38 percent of elementary teachers report

experiencing some kind of math anxiety.

Chinese: 4% Korean: 1% Vietnamese: 3% Filipino, Tagalog: 1% French/Haitian Creole: 2% German: 1% Arabic: 2% Yiddish, Jewish: 1% Hmong: 1%

OWN COMPUTERS It is estimated that 70% of students' waking TIME hours are spent outside of school. A strong **OUTSIDE** home-to-school connection is needed for

student success.

Learning at Home Parent Engagement Parent/student communication Access to Devices

Access to Internet

Homework time

Sources: mindresearch.org/blog/infographic-ELL-math-success



PARENTS

With Limited

FORMAL preK-5 and 35% in the higher grades had a parent with less than a high school education. **EDUCATION** 31% of families earning less than \$50K do not have internet access at home. **INTERNET** ONLY Only 29% of people with less than a high school education own a computer.

ELLs are also more likely to have parents

with limited formal education: 48% in grades

Parent/teacher communication Tracking student progress

SCHOOL



RESEARCH INSTITUTE

of School Ensuring ELL math success means providing equal access to continued growth at home. Areas of focus:

To Find Out More About Supporting ELL Math Education, Contact:

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