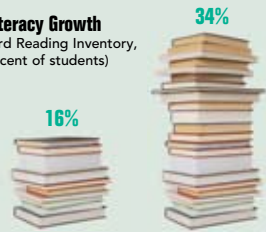


# How FrontRow promotes student success & teacher happiness

## Literacy Growth

(Standard Reading Inventory, percent of students)



Without FrontRow      With FrontRow  
7-Level Growth

## Test scores you'll want to show & tell

In a five-month study of 85 research and 81 control first-graders in the Broward County (Florida) Public School System, students in classrooms using FrontRow achieved significantly greater ( $p < .027$ ) IRI-measured literacy gains.

## Why it works

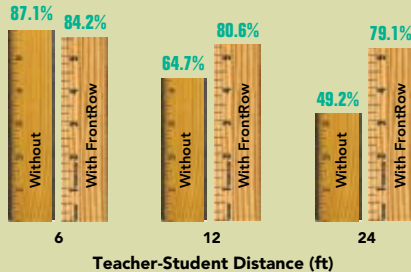
Because they increase speech clarity and phonemic awareness, FrontRow sound systems can significantly enhance the effectiveness of instructional programs — particularly in reading and spelling, but math scores are shown to improve as well.

## Source

Darai, Beata, Aud, FAAA. "Using Sound Field FM Systems to Improve Literacy Scores." *Advance for Speech Language Pathologists and Audiologists* 10 July 2000: 1-2.

Further studies available at [www.gofrontrow.com](http://www.gofrontrow.com)

## Mean Word Recognition Scores for ELL Students



## Connect with English learners

When researchers measured the word perception of 20 English language learners (aged 8 to 10) at various distances from the teacher, they found the children's performance significantly improved ( $p < 0.0001$ ) when using a sound system.

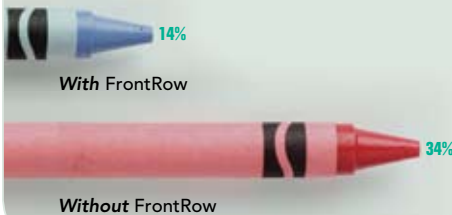
## Why it works

By ensuring that the teacher's voice is clarified and evenly distributed around the room, FrontRow systems can be tremendously helpful to English language learners — who have particularly strong speech perception difficulties when seated in the middle or rear of the classroom.

## Source

Crandell, Carl C., Ph.D. "Effects of Sound Field FM Amplification on the Speech Perception of ESL Children." *Educational Audiology Monograph* 4 1996: 1-5.

## Percent of Teachers Taking Voice-Related Sick Days



## Recess for your voice

In a survey of 56 Dubuque (Iowa) public school teachers, researchers compared sick days due to voice or throat problems before and after using a sound system. Teachers using the sound system reported a decline from an average of .93 sick days per year to .34 sick days per year — a reduction of 63%.

## Why it works

Because they need to project their voice to back of the classroom, half of all teachers will experience a voice disorder during their career. FrontRow systems eliminate this added strain. Most teachers using FrontRow report more energy and greater teaching satisfaction.

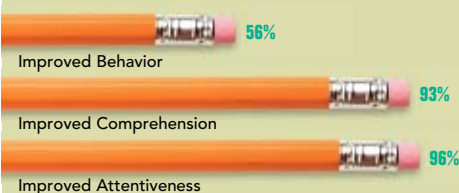
## Sources

Allen, Laurie, MA, CCC-A. "The Effect Sound Field Amplification Has on Teacher Vocal Abuse Problems." *American Academy of Audiology poster session* 1996.

Voice Academy. National Center for Voice and Speech. University of Iowa. 8 Feb 2007. [www.uiowa.edu/~shcvoice/slp.html](http://www.uiowa.edu/~shcvoice/slp.html)

## Student Attention & Behavior

(as reported by teachers and principals)



## 0 to 100% attention in 5 seconds

A three-year project involving 55 kindergarten through second grade classrooms in Escambia, Orange, Pinellas, and Sarasota (Florida) public schools found teachers were in 96% agreement that student attentiveness, listening, and comprehension improved when using FrontRow.

## Why it works

Listening is hard work. By making sure that the teacher's voice is highly intelligible to all students, FrontRow makes it easier to listen. As a consequence attentiveness, understanding, and behavior nearly always improve.

## Source

Rosenberg, Gail, et al. "Improving Classroom Acoustics (ICA): A Three-Year FM Sound Field Classroom Amplification Study." *Educational Resources Information Center*. 9 Mar 2007. [www.eric.ed.gov/ERICDocs/data/ericdocs2/content\\_storage\\_01/0000000b/80/0d/da/82.pdf](http://www.eric.ed.gov/ERICDocs/data/ericdocs2/content_storage_01/0000000b/80/0d/da/82.pdf)