Fast ForWord®

Family of Products

"...this actually makes a neurological difference that remains, and is a help to the child, forever."

—Barbara MacPhee, Principal,
New Orleans Center for
Science and Mathematics,
New Orleans, LA
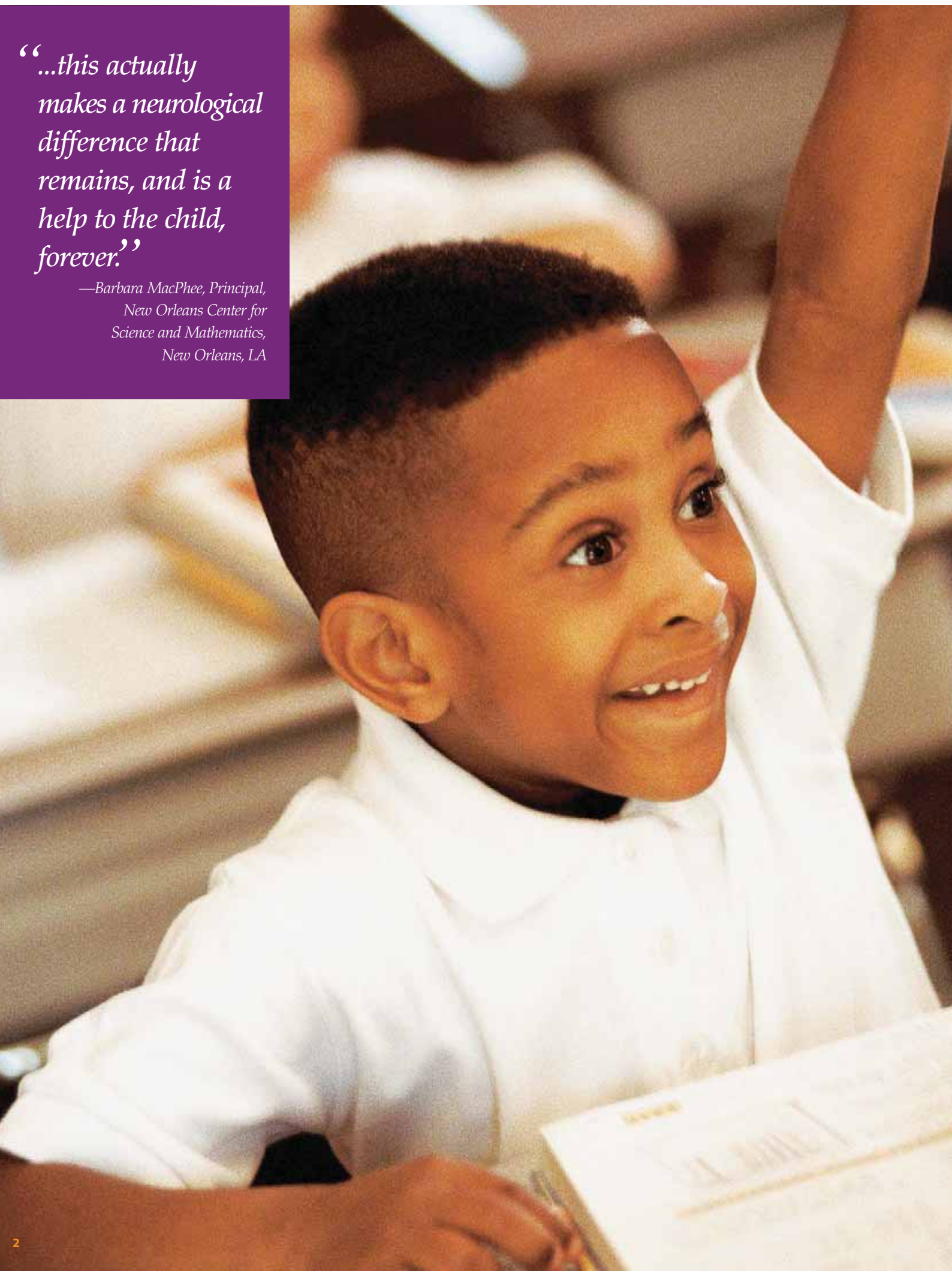
Wiring the Brain for Academic Gain

Cognitive Skills Development – Fast, Effective and Enduring

### FAST – one to two year reading gains in 8 to 12 weeks

First developed in 1997 by four internationally renowned research scientists, *Fast ForWord* products are based on over 30 years of scientific research into how the brain learns. Drawing on the concept of brain plasticity—the observation that the brain changes as we learn new skills— our scientists developed a patented technology that builds learning capacity and improves overall literacy. It is not unusual to see students who use *Fast ForWord* products gain a full year's reading skills in as little as eight weeks.

Our patented technology for accelerating learning is based on the F.A.S.T. Power Learning™ formula, which features:

▶ Frequency and intensity
▶ Adaptivity
▶ Simultaneous development
▶ Timely motivation

In addition, *Fast ForWord* products pack more learning activities into each learning session than other literacy programs, making them unrivaled for fast and enduring success.

PRODUCT INTENSITY COMPARISON
LEARNING ACTIVITIES PER 50-MINUTE SESSION

Fast ForWord products
approx. 625

Similar computer-based reading intervention products
approx. 175

Print-based reading interventions
less than 175
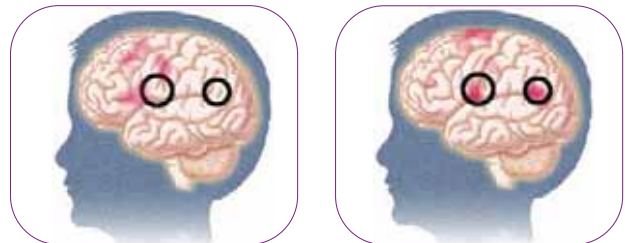
Not Activated   **Activated**

These images adapted from the research study completed by Stanford University on improved brain activation after use of Fast ForWord Language (Temple.E. et al. (2003) Proc.Natl.Acad.Sci USA 100. 2860-2865). *The complete study can be found at www.scilearn.com.*

EFFECTIVE – proven across the country

Again and again, independent research has shown that with recommended protocol use, *Fast ForWord* products actually build the learning capacity of the brain. We have one of the largest database of user results in education today, proving positive effects on a wide variety of student populations, including English language learners, special education students, academically at-risk students, and students performing below their potential.

ENDURING – cognitive skills development lasts a lifetime

By applying neuroscience principles, *Fast ForWord* software is unique in its ability to develop and strengthen the cognitive skills of:

▶ Memory
▶ Attention
▶ Processing
▶ Sequencing

These skills are crucial for reading success. We refer to them as **Learning MAPS** and their strengthening results in improved reading skills for struggling readers. These skills include phonological awareness, phonemic awareness, fluency, vocabulary, comprehension, decoding, syntax, and grammar.

Product efficacy crosses a variety of student populations

Improved Reading Skills
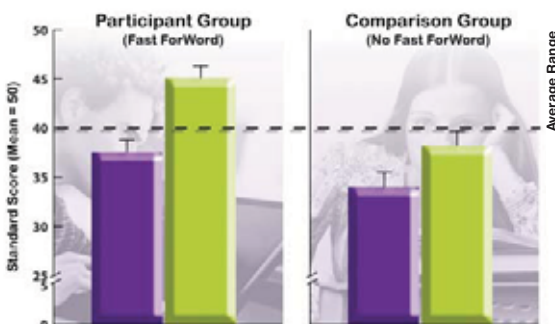Grade Equivalent

Secondary Education

Sixteen to twenty-one year olds attending an alternative high school in a large urban school district improved two and one-half grade levels in reading performance after just 6 weeks of using *Fast ForWord* software with recommended protocols.

Expressive Language **Receptive Language**
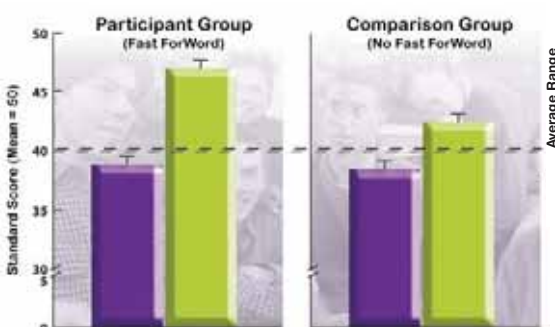Standard Score (Mean = 100) / Average Range
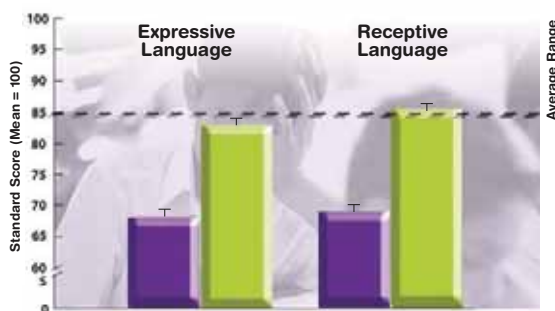
Special Education

The *Fast ForWord* family of products has helped students who are receiving special education services attain higher levels of academic achievement. In this group, students eligible for special education services made significant improvements in their critical reading-related language skills.

Participant Group (Fast ForWord) **Comparison Group (No Fast ForWord)**
Standard Score (Mean = 50) / Average Range

Limited English Proficiency

Students identified as having limited English proficiency had dramatic results from the use of *Fast ForWord* with a significant positive impact on their neuro-cognitive skills that help academically struggling students with limited English proficiency.

Participant Group (Fast ForWord) **Comparison Group (No Fast ForWord)**
Standard Score (Mean = 50) / Average Range

At-Risk Learners

This research was part of a multi-site randomized comparison trial that took place in nine school districts in five US states with more than 500 students. Students were deemed by their teachers as "at-risk" for academic failure and were randomly assigned to an experimental group. The students who used *Fast ForWord* software made significantly greater improvements than the comparison group.

Details for these results and additional studies can be found at www.scientificlearning.com/results
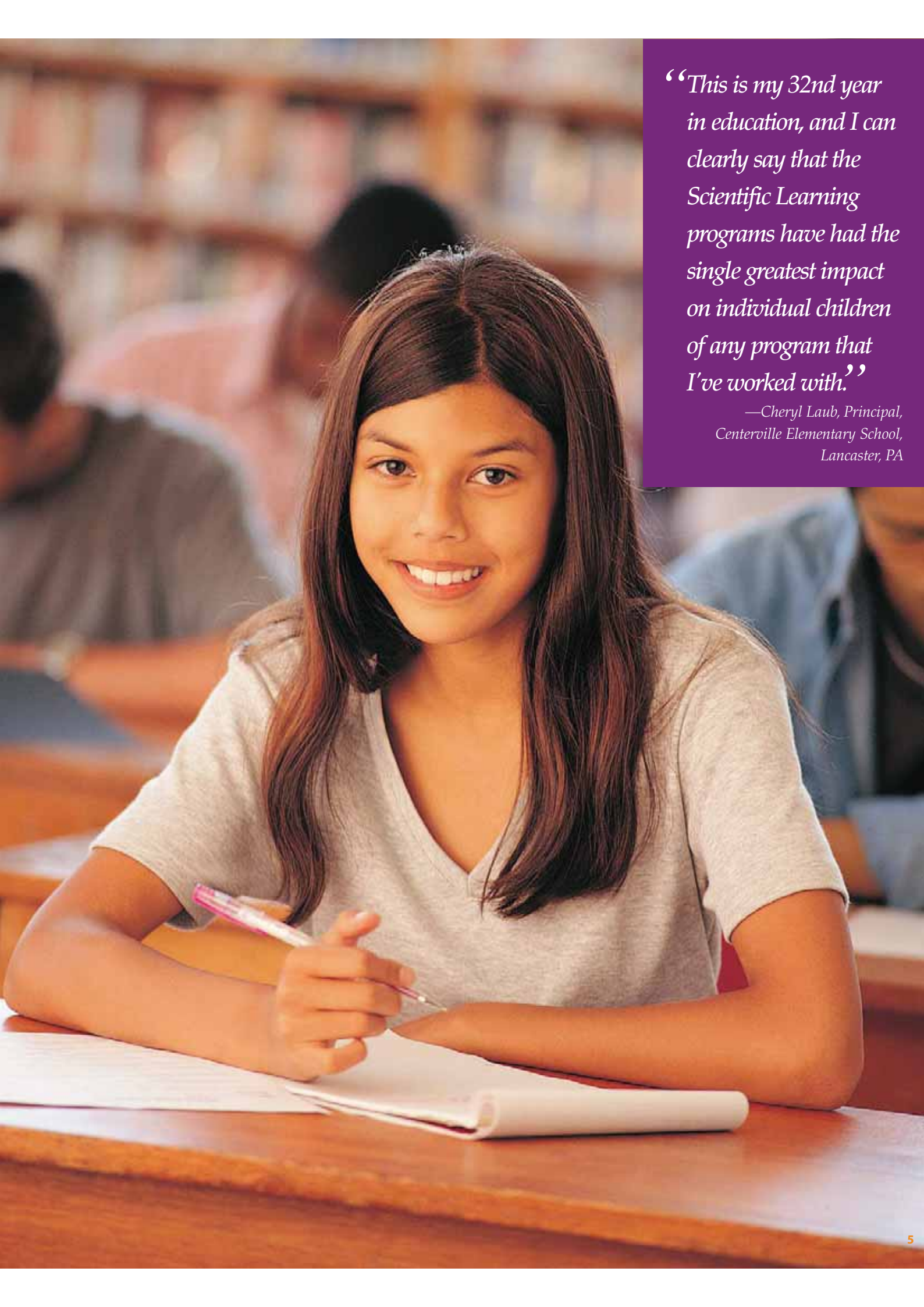
"This is my 32nd year in education, and I can clearly say that the Scientific Learning programs have had the single greatest impact on individual children of any program that I've worked with."

—Cheryl Laub, Principal,
Centerville Elementary School,
Lancaster, PA

Upon a Good Foundation, Greatness can be Achieved

Fast ForWord Language
Upon a Good Foundation

Through the patented technology of acoustically modified speech, the *Fast ForWord* Language product develops the cognitive skills that give struggling readers the solid foundation they need to learn to read. Skills developed in the context of reading include:

▶ Listening Accuracy
▶ Phonological Awareness
▶ Language Structures

Some engaging exercises include:

Circus Sequence Improves sequencing, sound processing and working memory skills, which are critical for decoding and phonemic awareness.

Old MacDonald's Flying Farm Builds phoneme discrimination and listening comprehension skills that help students recognize differing letter sounds.

Phoneme Identification Students learn to recognize and discriminate between syllables that differ by an individual phoneme.

Phonic Words In this word-identification exercise, students improve listening accuracy and word recognition skills.

Block Commander Students improve listening accuracy, listening comprehension and the ability to follow instructions, increasing working memory load.

Fast ForWord Language Basics
Develop early literacy skills

The *Fast ForWord* Language Basics product is an excellent tool for early literacy development, and uses fun activities to prepare students for the listening and attentional demand of classroom instruction. It consists of three exercises that develop visual attention and auditory discrimination skills as well as sustained auditory attention. Through the use of our patented technology this program improves:

▶ Sound sequencing skills
▶ Fine motor skills
▶ Hand-eye coordination
▶ Pattern recognition
▶ Color/Shape identification

Acoustically Modified Speech - Patented technology that allows sounds to be stretched and emphasized in the lowest levels with progression to natural speech at the highest level. This technology helps children recognize word sounds first, in isolated syllables, then in groups of sounds, words, and finally, sentences.

Fast ForWord Language to Reading
The Critical Link

This suite of computer-based exercises uses acoustically modified speech to rapidly develop the cognitive skills that help students make the link between spoken words and reading. These skills include:

- ▶ Listening Comprehension
- ▶ Sound-Letter Recognition
- ▶ Phonological Awareness
- ▶ Beginning Word Recognition
- ▶ English Language Conventions

Some engaging exercises include:

Polar Cop Students learn to identify phonemes, associate sounds with letters and build visual tracking skills as they build their processing skills.

Start-Up Stories This exercise develops listening comprehension skills as well as grammar and syntax.

Trog Walkers Students learn to discriminate between similar sounds of increasing difficulty, building their listening comprehension skills and strengthening working memory.

Bug Out! Students build associations between word sounds and written words while also developing working memory and verbal retention skills.

Treasure in the Tomb Students develop word analysis, organization and focus skills, as well as phonological awareness and working memory.

Minimum Specifications: The *Fast ForWord* Gateway Edition family of products runs on both Windows and Macintosh computers. It is also compatible with OSX 10.3 and higher. All applications are native. A complete specifications list can be found on the web at http://www.scilearn.com/techspec.

Fast ForWord®
to Reading

Reading intervention products scientifically validated to work

Learning to read is one of the most difficult challenges students face in their lifetime. There are countless occurrences taking place simultaneously within the brain as an individual tries to decode phonemes, enhance fluency and comprehend text. For a struggling reader this process can be laborious and often lead to low self esteem and lack of willingness to succeed. While there is nothing that can replace the benefits of a good classroom environment and a good teacher, scientific research has proven that if a student's brain is ready to learn the student will learn.

Our products build:

▶ **Phonemic awareness**

▶ **Phonological awareness**

▶ **Sound-Letter associations**

▶ **Phonics**

▶ **Vocabulary**

▶ **Sentence comprehension**

▶ **Paragraph comprehension**

▶ **Decoding**

▶ **Advanced knowledge of letter-sounds**

▶ **Phonology**

▶ **Structure of written language**

▶ **Cause and effect relationships in written text**

▶ **Complex sentence construction**

▶ **Passage construction and organization**

▶ **Spelling**

▶ **Syntax**

▶ **Grammar**

Fast ForWord to Reading Prep

Building a bridge to better reading
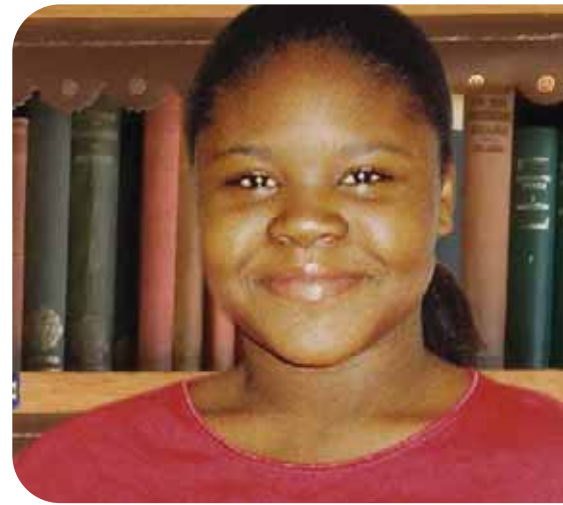
Some engaging exercises include:

Hungry Tummy By feeding the hungry bear, the student learns to follow verbal instructions as well as improve verbal decoding and working memory skills.

Coaster A haunted coaster ride helps students develop letter-sound association skills and build an initial understanding of the alphabetic principle.

Houndini As Houndini works his magic cards, students associate letters with sounds to develop phonological awareness skills, including phoneme analysis and phonological working memory.

Fast ForWord to Reading 1

Introduces familiarity with print

Some engaging exercises include:

Magic Rabbit Students build spelling skills and sensitivity to letter-sound correspondences.

Flying Fish This exercise uses the top 200 high frequency words from the Francis & Kucera norms, along with Reading Teacher's Book of Lists and grade level sight words.

Bedtime Beasties Sentence comprehension skills are developed by providing choices for the student to complete the sentence.

"*Mia Robinson 'gets a brain,' and goes from acting out to acting proud.*"

—*Debra Pierce*
Fast ForWord *Coach*
Kalfas Magnet School
Niagara Falls, New York

For more real life stories, go to www.scientificlearning.com/results/ success/main=home

Fast ForWord to Reading 2
Gaining knowledge through understanding

Some engaging exercises include:

Bear Bags: More Lunch This exercise builds skills in phonemic awareness, phonics and decoding of one and two syllable words.

Leaping Lizards Improve sentence comprehension while building vocabulary, punctuation and capitalization skills as well as word morphology, prefixes and suffixes.

Ant Antics Develops critical reading and sentence comprehension by asking students to match pictures to their descriptive titles.
.

Dog Bone Amid the excitement of a game show, students improve listening and reading comprehension as they read pages of text or graphs and answer comprehension questions. Uses grade 1-3 level of fiction and nonfiction passages.

Fast ForWord to Reading 3
Leading students towards fluency

Some engaging exercises include:

Scrap Cat This exercise works on semantic, syntactic, phonological and morphological categories.

Twisted Pictures This exercise challenges students and develops sentence comprehension skills by incorporating a high level of syntactic complexity.

Chicken Dog Builds phonics and spelling skills. After hearing the word orally, students must complete the written word by choosing the missing letters or letter combinations.

Fast ForWord to Reading 4

Improve on text interpretation

Some engaging exercises include:

Goat Quotes Improves comprehension of short paragraphs through a paraphrase-detection task.

Stinky Bill's Billboard Skills developed include the use of compound words, prefixes, and homo-phones while build-ing word knowledge.

Book Monkeys: Book II Students correctly answer questions about the paragraphs and schedules presented.

Fast ForWord to Reading 5

Learn advanced comprehension strategies

Some engaging exercises include:

Gator Jam This exer-cise builds vocabulary and improves critical thinking and abstract reasoning.

Quack Splash Develops skills in con-structing and organiz-ing fiction and nonfic-tion passages.

Lana's Lanes Students learn read-ing comprehension strategies as they work with fiction and nonfiction pas-sages that include a wide range of liter-ary structures and devices.

Toad Loader This exercise develops accuracy and fluency in recognizing sentence structures and constructing sentences.

Wood Works This exercise builds accuracy and fluency in spelling, decoding and phonemic analysis.

"*After Fast ForWord I think Matthew felt more in charge. He liked the idea of looking at his scores each day and seeing how much improvement he made. The program seemed more concrete to him.*"

—*Gerry parent of* Fast ForWord *participant*

For more real life stories, go to www.scientificlearning.com/results/success/main=home

Fast ForWord to Reading Series

This chart demonstrates how Fast ForWord exercises are designed on a continuum to effect positive change in core reading skills

	PHONEMIC AWARENESS				PHONICS AND DECODING			SPELLING	
	Phoneme Identification	Phoneme Categorization	Phoneme Blending and Segmentation	Phoneme Substitution	Letter - Name	Sound ⟷ Letter Correspondence	Word Families	Regular Words	Irregular Words
Fast ForWord to Reading Prep	●	●	●		●	●	●	●	
Coaster	■		■				■		■	
Houndini		■	■			■	■		
Inside the Tummy									
Hungry Tummy									
Packing Pig Goes to Work					■				
Packing Pig Has Lunch					■				
Fast ForWord to Reading 1	●	●	●			●	●	●	
Bear Bags	■	■	■			■	■		
Magic Rabbit				■		■		■	
Flying Fish						■			
Quail Mail						■			
Bedtime Beasties									
Buzz Fly									
Fast ForWord to Reading 2	●	●	●	●		●	●	●	
Bear Bags: More Lunch	■	■	■			■	■		
Magic Bird			■	■		■	■	■	
Fish Frenzy									
Leaping Lizards									
Ant Antics									
Dog Bone									
Fast ForWord to Reading 3		●	●			●	●	●	●
Scrap Cat		■				■	■	■	■
Chicken Dog			■			■	■	■	■
Canine Crew									
Twisted Pictures									
Book Monkeys									
Hog Hat Zone									
Fast ForWord to Reading 4			●			●	●	●	●
Jitterbug Jukebox			■			■	■	■	■
Hoof Beat						■		■	■
Stinky Bill's Billboard									
Lulu's Laundry Line									
Book Monkeys: Book Two									
Goat Quotes									
Fast ForWord to Reading 5		●				●	●	●	●
Wood Works		■				■	■	■	■
Gator Jam									
Lana's Lanes									
Quack Splash									
Toad Loader									

Aligns to Essential Reading Skills

Rapid Letter/ Word Recognition (High Freq. words)	Modeling Fluent Reading	Repeated Reading	Oral Vocabulary	High Freq. Words (includes Dolch words)	Difficult Words (eg. Homonyms)	Morphology	Context Cues	Listening Comprehension	Monitoring Comprehension	Graphic & Semantic Organizers	Recognizing Story Structure	Summarizing
FLUENCY			**VOCABULARY**					**COMPREHENSION**				

Rewiring the Adolescent Brain

Fast ForWord to Literacy
See just how far it can take you

Fast ForWord to Literacy uses neuroscience principles to create an intervention like no other. It targets the underlying foundational issues that often challenge the struggling adolescent reader. Using graphics, characters, and themes that are appealing to today's adolescent, this product emphasizes advanced grammatical structures, places increased demand on listening for comprehension and advances student vocabulary development, including terms from math and science.

▶ Progressively increases the demands on cognitive skills
▶ Adapts to individual skill level so students are continually challenged
▶ Provides immediate feedback

Some Engaging Exercises include:

Space Racer Improves the speed at which the student identifies and understands rapid, successive changes in sound.

Star Pics Improves vocabulary development and builds auditory word recognition by exercising the student's ability to distinguish phonologically similar words.

Galaxy Goal Improves identification and discrimination of syllables that differ by an individual phoneme, increasing a student's phonological fluency and listening accuracy.

Spin Master This phonological fluency exercise increases in difficulty across three dimensions: synthetic speech emphasis, presentation rate, phoneme discrimination.

Lunar Tunes Improves the student's ability to recognize spoken words by having them use auditory and visual-spatial working memory to locate matching syllables.

"*It was just like the words were clicking together... I couldn't believe it. I ran to my mom and showed her, and she started to cry.*"

—*Willie Brown, Student, Orlando, FL*

For more real life stories, go to www.scientificlearning.com/results/success/main=home

Fast ForWord to Literacy Advanced

Advancing adolescent literacy is *not* out of this world!

Fast ForWord to Literacy Advanced continues the cognitive strengthening of *Fast ForWord to Literacy* and bundles it with advanced practice in grammatical structures and comprehension. Using Scientific Learning's patented technology it provides the neurological intervention needed to produce rapid reading gains of two years in eight to twelve weeks.

▶ Age targeted exercises that provide phonemic awareness, decoding, and word recognition practice
▶ Sequential and inferential comprehension questions
▶ Ability to sequence multi-step instructions

Some Engaging Exercises include:

Sky Rider Improves advanced listening accuracy and auditory sequencing by challenging the participant to identify, remember, and repeat the number and order of modulated frequency sound sweeps.

Meteor Ball Improves word analysis, sustained attention, and through visual tracking it reinforces left to right reading patterns.

Lunar Leap Improves word analysis by challenging the participant to discriminate between phonologically similar words.
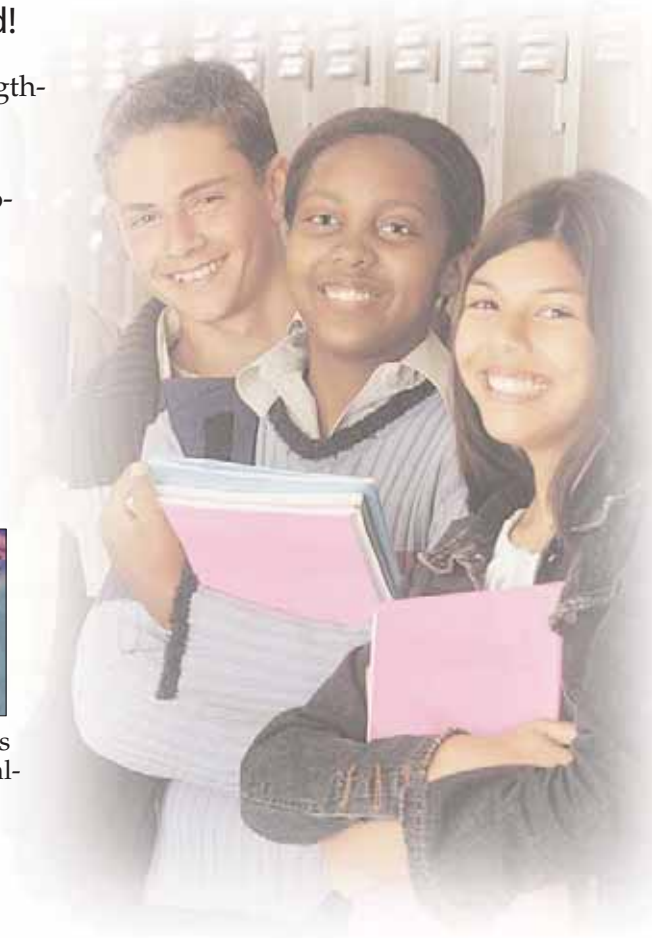
Galaxy Theater Improves skills in listening comprehension, following directions, English language conventions, and vocabulary.
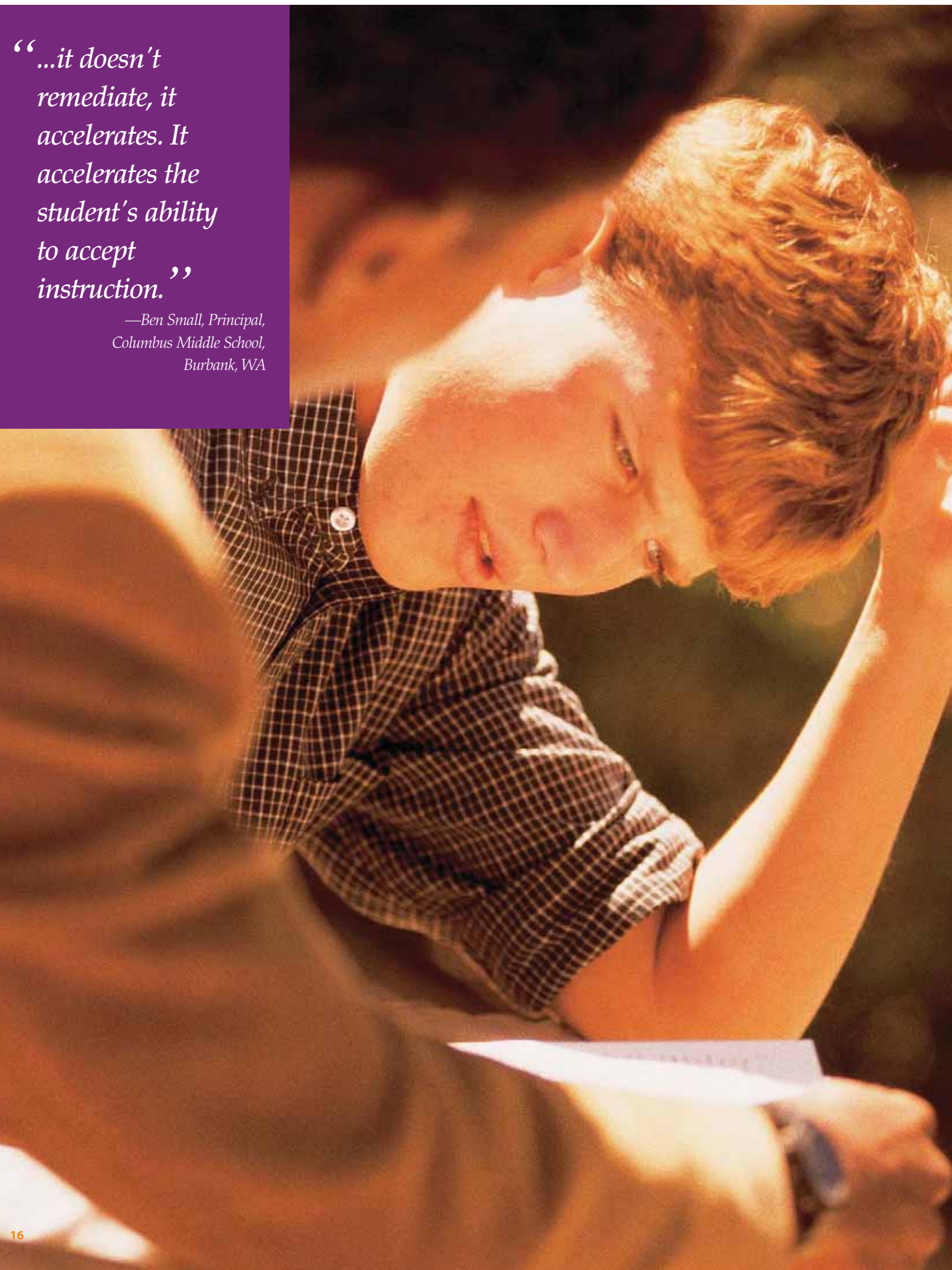
Laser Match Improves word analysis and phonological memory through the use of auditory and visual cues to match words on a grid.

Includes Spanish Instructions

"...it doesn't remediate, it accelerates. It accelerates the student's ability to accept instruction."

—Ben Small, Principal,
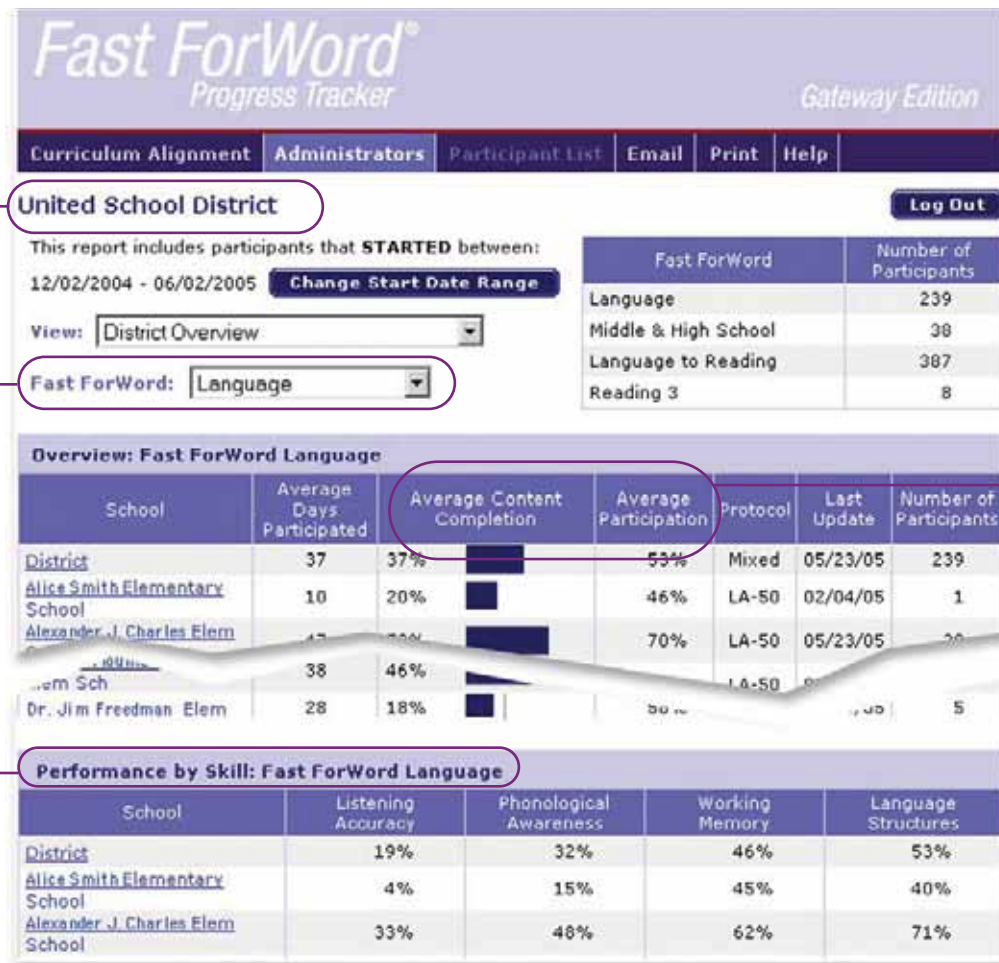*Columbus Middle School,*
Burbank, WA

The Power of Progress Tracker

Track results by district, school or classroom

See how individuals using Fast ForWord products are performing

Track the progress of specific reading and language skills

Check content completion and participation rates for each school in your district

Accountability at every level

Progress Tracker, our Internet-based data analysis and reporting tool, works at classroom, school, and district levels to supply relevant data on student cognitive development. It allows you to easily track student progress and determine when to move students to the next stage of learning. The analytics, including diagnostic and prescriptive information, are displayed in easy-to-understand graphs and tables. Educators receive timely and specific intervention strategies. Progress Tracker is also an excellent source of demographic information and progress monitoring that will better assist you in meeting AYP goals.

Among other things, Progress Tracker accomplishes the following:

▶ **Provides administrative reports at the district, school, classroom, and individual levels**

▶ **Uses SIF Certified Registration Agent**

▶ **Tracks daily performance**

▶ **Creates learner profiles**

▶ **Tracks student errors**

▶ **Aligns to Basal reading programs**

▶ **Correlates to state standards**

▶ **Emails student progress**

▶ **Batch prints student reports**

Maximize Your Student's Potential With Our Support

We help you maintain the gains

The best way to understand how *Fast ForWord* products can make a difference in the lives of students is to speak directly to one of our **"We Care"** team members. These highly skilled implementation, education, and technology specialists can explain in detail the profound effects of our scientifically developed products. They have extensive experience in all levels of education and administration to plan, schedule, provide Professional Development, and motivate people so that the integrity of your *Fast ForWord* experience is assured.

We are ready to support you when you need us most

Our support goes beyond technical assistance by providing you with resources that are customized to meet your needs. The **"We Care"** team works with schools to monitor the progress of students, ensuring that goals are met and maintained. In addition, we have a vast array of services that support our customers and help them resolve issues in a timely and effective manner. Some of these services include:

▶ **Feature Rich Enhancements** allow you to stay current with latest releases and gives you increased performance and reliability.

▶ **Customer Connect** is the web-based resource and support center for our easy to access, searchable database of technical and instructional materials.

▶ **Online training via WebEx sessions** are informational sessions available 24/7 to give you strategies to achieve the best results with your *Fast ForWord* students.

▶ **Instructional Support** helps schools and districts maximize their success at every level every day.

▶ **Progress Monitoring** is a new, enhanced service provided to all active Gateway support customers to assure successful implementation and achieve the gains.

Fast ForWord®
We Care
Partners for your success **TEAM**

"We maintain the gains, motivate the students, and partner for success."

—*Your Fast ForWord Professional Service Team*

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Scientific
Learning®

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