

### **Peer Assisted Learning Strategies**

An overview of a scientifically-researched educational program developed at Vanderbilt Unversity

# Introductions III

- About me
  - Devin Kearns
    - Former 3<sup>rd</sup> grade teacher
    - Former Reading First Literacy Coach

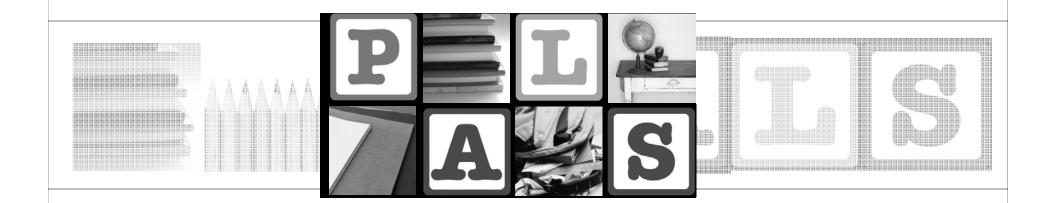


- What is PALS?
  - Different PALS programs
  - How PALS works
- Does PALS work?
  - Research evidence for multiple grades
  - Nashville-based studies and scaling-up
- How can I start PALS?

# This is an overview.

- Training on PALS provides considerable detail
- Today, we will talk about general principles of PALS
- Contact us at Vanderbilt if you are interested in more detailed information about how it works

### What is Peer-Assisted Learning Strategies?



PALS Overview

### Different Reading PALS Programs

- Kindergarten PALS
- First Grade PALS
- Grades 2-6 PALS
- High School PALS
- There is also Math PALS, Grades K-5

# what is PAEs? 5

- Is a "class-wide peer tutoring" program
  - Derived from the Juniper Gardens Project at the University of Kansas
  - Studied at Vanderbilt for over 15 years
    - Developed by Doug and Lynn Fuchs and colleagues
  - Recently studied at three sites in the U.S.
- Has several key elements
  - Cooperative learning
  - Highly structured interaction
  - Focus on key grade-level skills
  - Reinforcement of academic behaviors

## **Cooperative Learning**

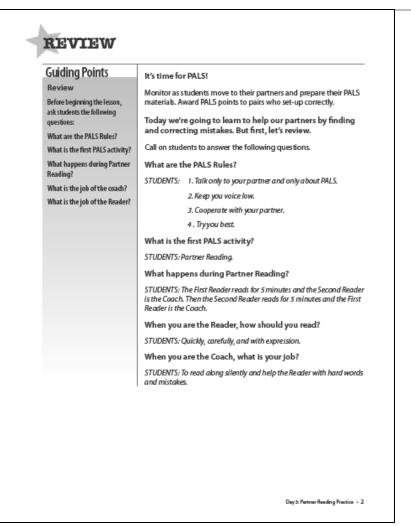
- Students work in pairs
  - Higher- and lower-performing students work together
    - Difference in ability not extreme
  - Peers both perform roles of "coach" and "reader"
    - As coach, students provide support to reader
- This allows for differentiated instruction
  - Individualized help from peers
    - Teachers have expertise but not time
    - Peers have time for each other can have some expertise
  - Pairs read ability-specific texts

## Highly Structured Interaction

- PALS is a routine
  - Teacher provides explanation of how to interact during training lessons
  - After that, students perform the PALS routines
- Students have clear responsibilities
  - Example (Grades 2-6):
    - Reader will read for 5 minutes
    - Coach will follow along and correct mistakes as needed
  - Coaching procedure (Grades 2-6):
    - Next slide

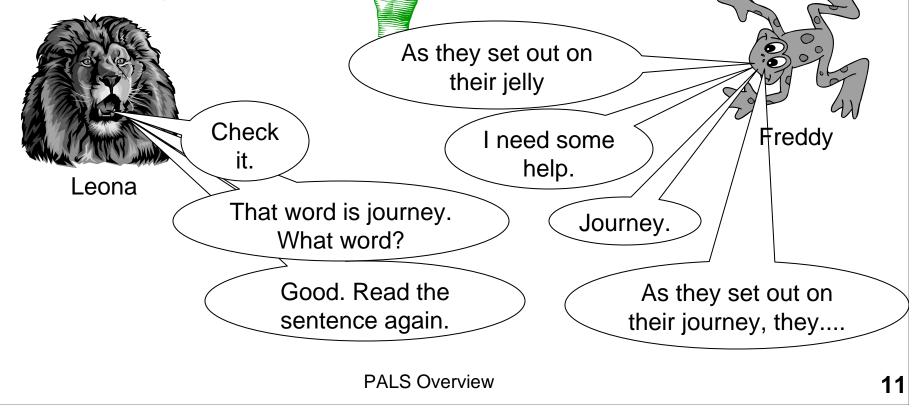
### Highly Structured Interaction: Training Lessons

- A sample script for Grades 2-6 PALS
- Each version of PALS has a set of introductory training lessons to introduce all activities



### Highly Structured Interaction: A Correction Procedure

Ellen the Eagle and her brother, Edgar had lived far from their parents for a long time. For Ellen's birthday, Edgar decided they should visit their parents. As they set out on their journey, they waved goodbye to their friends, Maurice the Mouse and Kiesha the Kangaroo. They spread their wings and soared away from their home of the mountaintop.



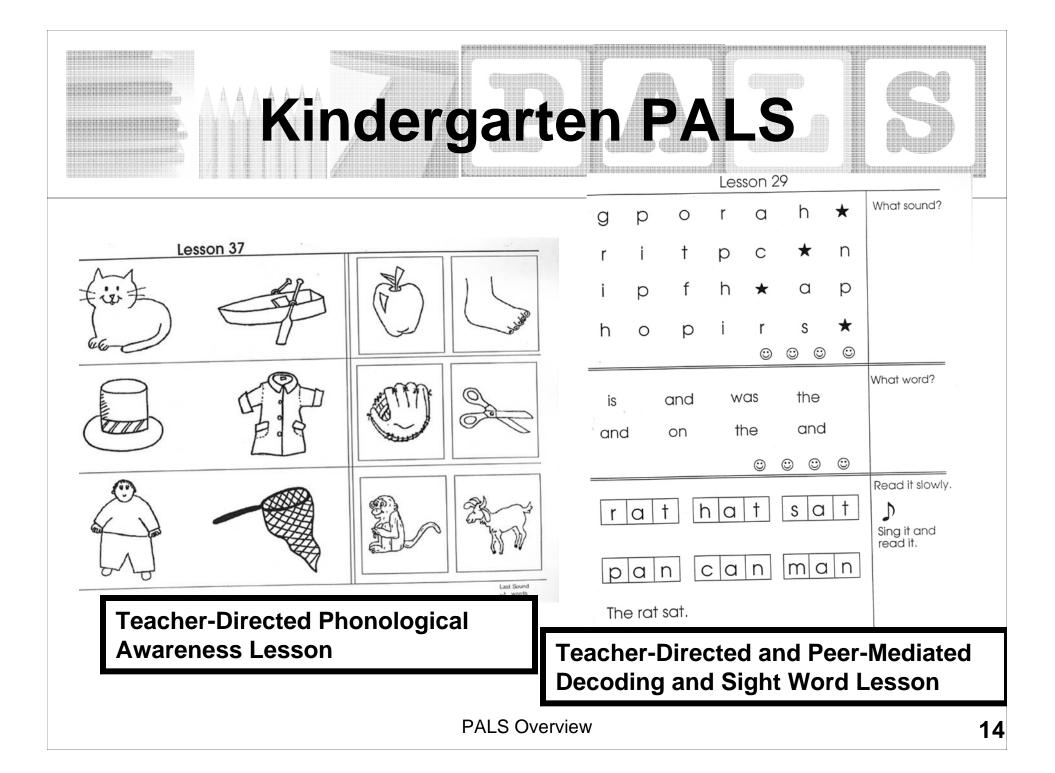
### Highly Structured Interaction: Benefits

- Increased academic learning time
- Promotes positive, academically-focused social interaction
- Permits teachers to pay attention to each pair

## Focus on Grade-Level Skills

- Kindergarten:
  - Phonological awareness
  - Phonics
    - Decoding
    - Sight Words
  - Fluency (limited)
- First Grade:
  - Phonological awareness (limited)
  - Phonics
    - Decoding
    - Sight Words
  - Fluency

- Grades 2-6:
  - Fluency
  - Comprehension strategies
    - Retelling
    - Summarizing
    - Predicting (inferencing)
- High School:
  - Fluency
  - Comprehension
    - Retelling
    - Summarizing
    - Predicting (inferencing)

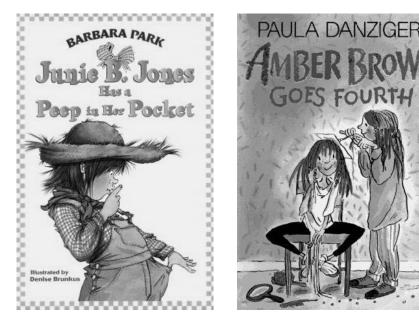


## First Grade PALS sample

Lesson 33	coach says: too says they have they are says too "Read the words."
uobusy ★ ckf wuknckgaue ckuey ★ wobk pcuikdckr★ ©© spoints Spoints	"What sound?" into the too you too says go down to says before they go go into me too too he says too they are too says because you into says down they go too says away they go $\bigcirc$ $\bigcirc$ s points s points s points s points
Dad can't hot spots truck bus	1. "Sound it out." James and Pam are Sick   2. "Read it fast." James and Pam are hot. They have big red spots, too. They are not hungry. Mom says, "You are too sick to go to school. You must go to the doctor. We have to ride the bus because Dad has the truck." Mom, James, and Pam go down to the bus stop. Mom says @ @ @ @
	ediated Decoding, Sight Word, ency Lesson PALS Overview

## Grades 2-6 and High School

- Students complete 4 activities
  - Partner Reading
  - Retell
  - Paragraph Shrinking
  - Prediction Relay
- Books differ by pair



## Grades 2-6 Activities

#### Question Card

#### BVISATURE ELEVIDIONG

1st Reader reads. 2nd Reader is Coach.

2nd Reader reads. 1st Reader is Coach. Begin reading where 1st Reader started.

> for each sentence

#### FIREFERE

#### 2nd Reader retells. First Reader asks:

- 1. What happened first?
- 2. What happened next?
- 3. Continue asking what happened next.



Student Materials - 177

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#### BVIVGEVIME SHEEDINGONG

point

for each step

step

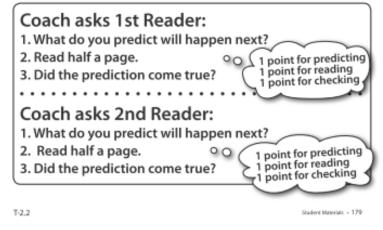
#### 1st Reader reads. Coach says:

- 1. Name the most important who or what.
- 2. Tell the most important thing about the who or what.
- 3. Say the main idea in 10 words or less.

#### 2nd Reader reads. Coach says:

- 1. Name the most important who or what. 2. Tell the most important thing about the who or what. 00 for each
- 3. Say the main idea in 10 words or less.

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PALS Overview

### Focus on Grade-Level Skills: PALS is supplemental

- PALS does not teach all skills
  - PALS teaches key skills, identified as critical by research
  - To cover all required standards, other lessons will be needed; continue using your core program
- PALS is not usually done every day
  - Kindergarten: 20-30 minutes 3 times a week
  - First Grade: 35-45 minutes 3-4 times a week
  - Grades 2-6 and High School: 35-40 minutes 3 times a week

### Reinforcement of Academic Behaviors

- The "Points System"
  - Pairs earn regularly points for completing activities
  - Pairs accumulate points toward a reward
- Rewards
  - Kindergarten: Pairs get teacher recognition for completing points sheet
  - First Grade, Grades 2-6: Pair points go toward a team total; the winning team gets class recognition
  - High School: Pair points provide "dollars" in a token economy; dollars go toward prizes

### **Research on PALS**



## (A) Achievement(B) Socialization

PALS Overview

## PALS Research at Vanderbilt

- Diverse students
  - Title I and non-Title I
  - Urban, suburban, and rural
  - High, average, and low-achieving students
  - Students with special needs
- Experimental studies
  - Compare PALS to Control
  - Classrooms are randomly assigned
- Evidence for all grades

## K-PALS Effectiveness

- 3 years of research
- Conducted in Nashville public schools
- Used random assignment
- Compared
  - Phonemic Awareness only
  - Decoding only
  - Phonemic Awarness + Decoding
  - Controls students (what teachers generally provided)

## K-PALS Effectiveness

- K-PALS students outperformed peers in non-PALS classrooms
- Improved PA and reading performance by 10 to 15 percentile points
- Effective for low-, average-, and highachieving students
- Effective in Title I (high poverty) and middle-class schools

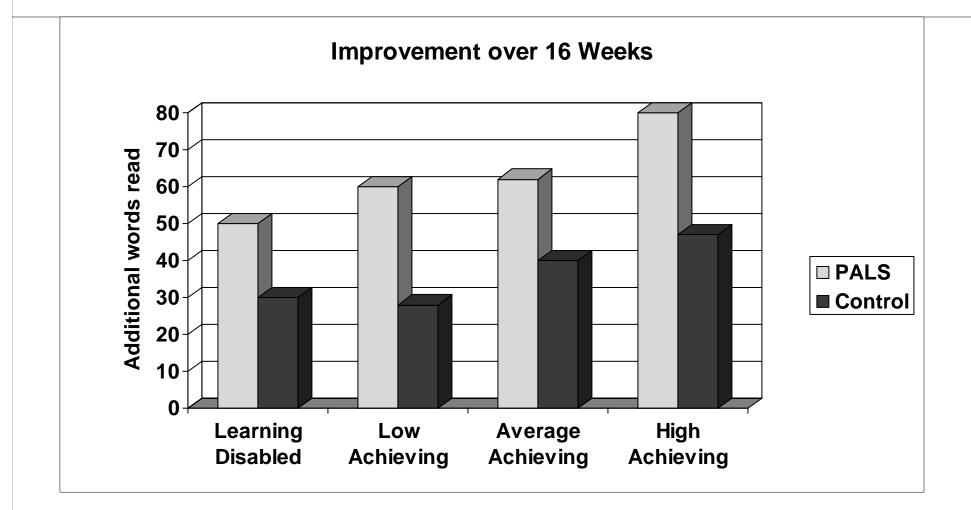
### First-Grade PALS Effectiveness

- 3 years of research
- Conducted in Nashville public schools
- Used random assignment
- Compared
  - Grade 1 Decoding PALS
  - Grade 1 Decoding PALS + Fluency
  - Controls

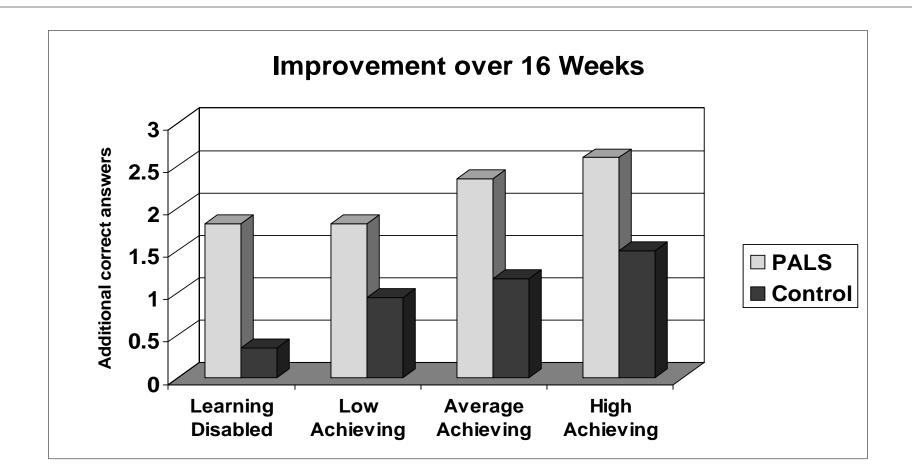
## First-Grade PALS Effectiveness

- Students in PALS and PALS + Fluency outperformed controls in PA, decoding, and word recognition
- Students in PALS + Fluency outperformed controls in fluency and comprehension
- Effective for students in Title I and Non-Title I schools
- Effective for all learner types

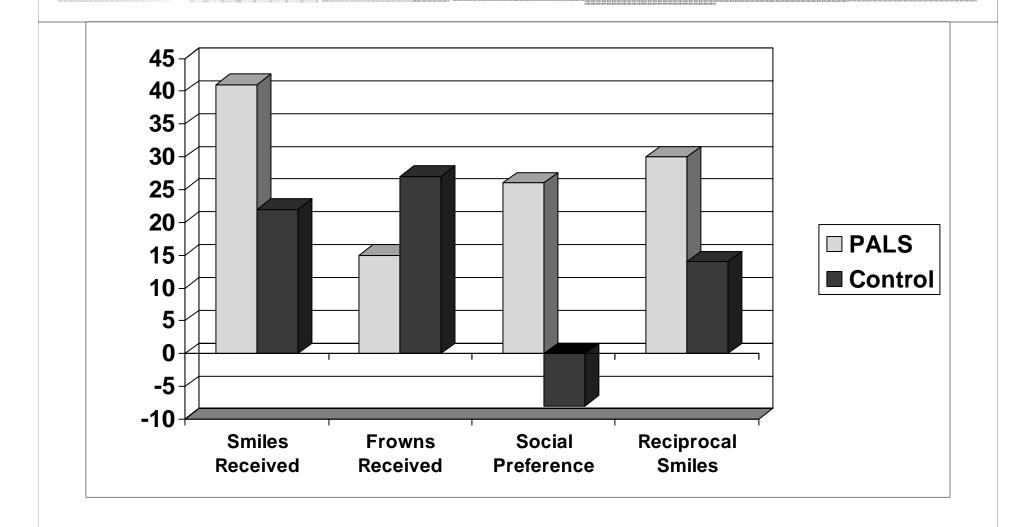
### Grades 2-6 PALS Effectivenes Passage Fluency



### Grades 2-6 PALS Effectiveness Reading Comprehension



### Grades 2-6 PALS Effectiveness Social Acceptance of Students with LD

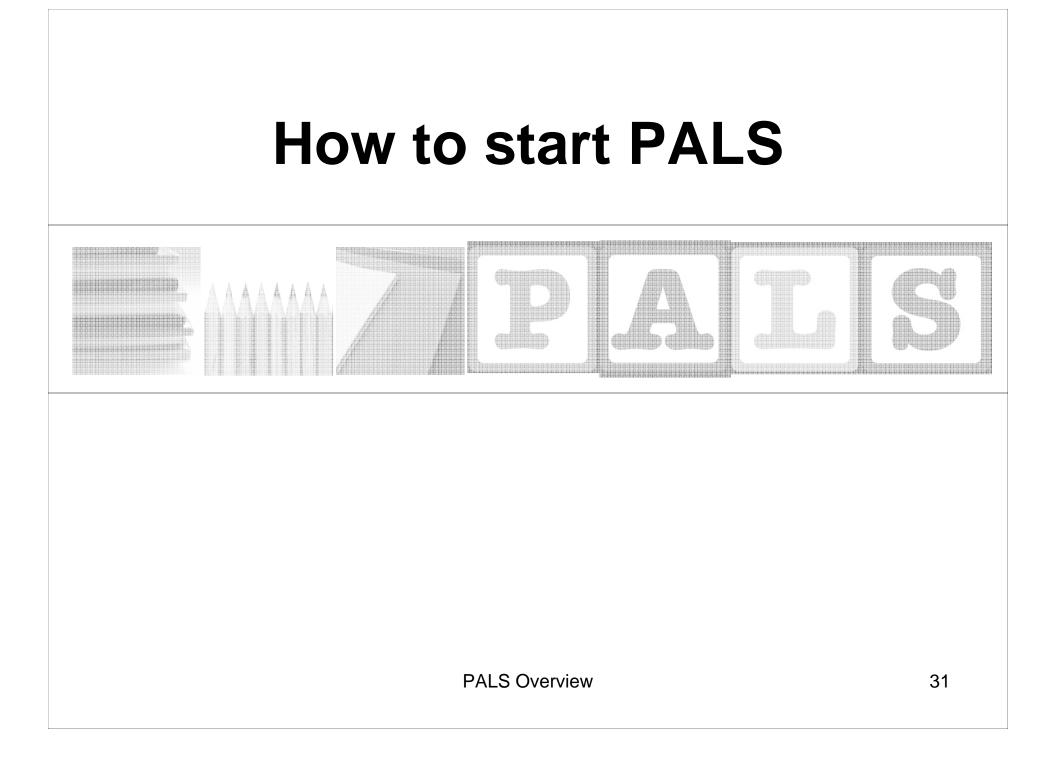


## Recent Grades 2-6 Research

- Studied Kindergarten and Grades 2-6 PALS in three different sites (over 100 teachers)
  - Nashville and suburbs
  - Minneapolis and suburbs
  - South Texas
- Used multiple reading measures
  - Word reading: Woodcock Reading Mastery Test, Revised, Word Identification subtest
  - Passage reading: Comprehensive Reading Assessment Battery, 1-minute timed fluency
  - Reading comprehension: Iowa Test of Basic Skills
- PALS classrooms outperformed Control classrooms

## PALS Research Conclusions

- Across programs, PALS students had greater gains on academic measures
- PALS students accepted their peers with disabilities more
- PALS is considered a "Best Practice" by the U.S. Department of Education
  - What Works Clearinghouse
    - http://ies.ed.gov/ncee/wwc/
  - Doing What Works
    - http://dww.ed.gov



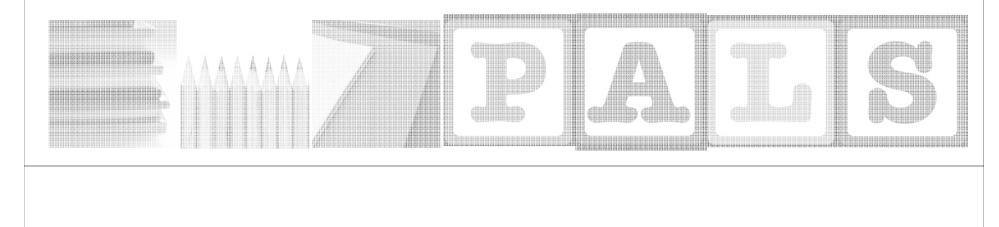
## **Options for starting PALS**

- Kindergarten and Grade 1
  - Order materials (including teacher instructions and student materials to copy) from Vanderbilt
- Grades 2-6
  - Read the original research and create materials yourself
    - Fuchs, D., Fuchs, L., Mathes, P., & Simmons, D. (1997). Peerassisted learning strategies: Making classrooms more responsive to diversity. *American Educational Research Journal, 34,* 174-206.
  - Read a summary and a how-to from an independent source
    - Rathvon, N. (2008). Effective School Interventions: Evidence-Based Strategies for Improving Student Outcomes (2nd Ed.). New York: The Guilford Press.
  - Order materials (including teacher instructions and student materials to copy) from Vanderbilt

kc.vanderbilt.edu/pals peerassistedlearningstrategies.com

PALS Overview

### Questions, Clarifications, and Closing Words



PALS Overview

## Feel free to contact us

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