Read&Write GOLD Software: How Does Its Use Effect Middle School Student Writing

Susan Kenney EDSE 841, Fall 2008

Previous Research

- Writing is very complex (Beck, 2003)
- Difficulties with writing are often experienced by students with learning disabilities (Newcomer & Barenbaum, 1991).

Previous Research

 While struggling with handwriting, erroneous spelling, and baffling mechanics, thinking processes are inhibited (McCutchen, 1995).

Previous Research

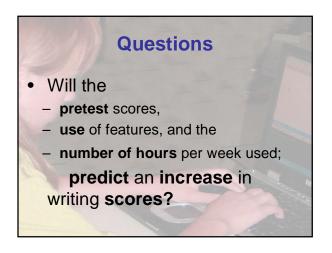
- Reducing the pressure of handwriting and spelling, students are free to develop higher level thinking skills.
- Giving students access to technology will not automatically create better writers (MacArthur, 1996),
- Could a combination of technology and effective writing instruction help?

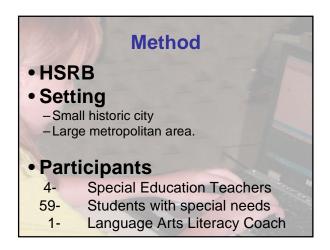
Purpose

- District Purchased new software
- Research will help
 - -Verify it's effectiveness
 - -Validate the expenditure

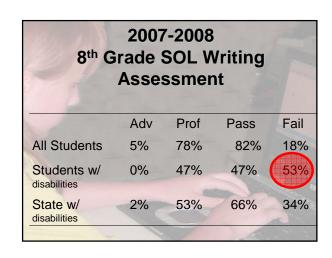
Questions

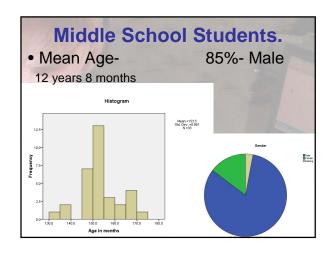
- Difference in the decrease of error rates?
 - Treatment and
 - Comparison groups?
- Difference in the Criterion holistic gain score?
 - Read&Write GOLD with Criterion
 - Criterion only?

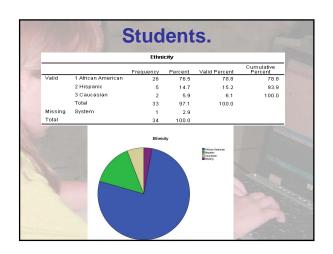


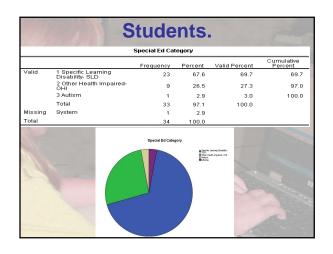


Student Population • 2 middle schools with enrollment 1,000 students. • 41-48% - African American • 25-28% - Hispanic, • 3-9% - Asian Pacific, and • 14-30% - Caucasian. • 5% learning disabilities (LD).









Teachers.

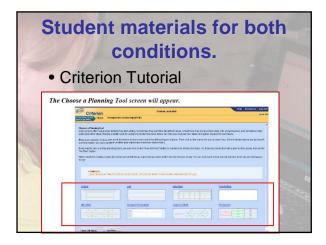
- 3 Caucasian & 1 African American
- All Female
- 1- less than 5 years experience
- 1- between 5-10 years experience
- 2- over 15 years experience

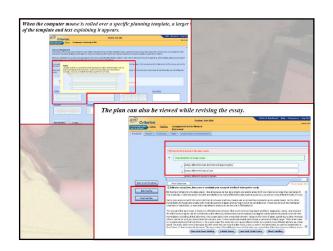
Study Design

- Treatment vs. Comparison groups
- Pre-test Baseline Writing sample
- Intervention
- Intermediate probes
- Post test Writing sample
- Maintenance Measures

Equipment

- Dell Desktop computers with LCD Monitors
 - -In large Computer lab
 - -3 in each classroom
- Read&Write GOLD Software
- Criterion web based writing evaluation application

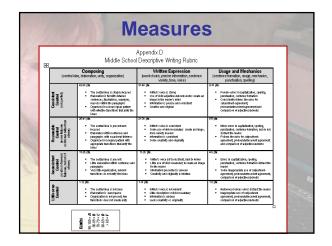


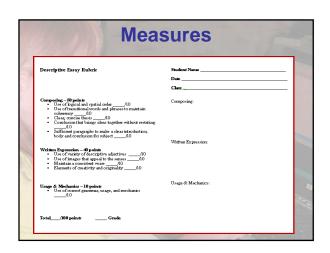


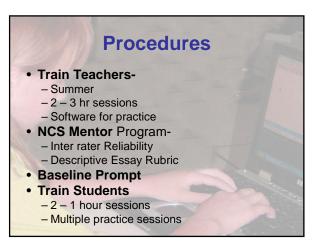




Teacher materials. NCS Mentor program -assessment verification -Inter Rater Reliability Training for using the rubric -Discuss assessment of sample papers -2-3 raters







Testing.

- Writing Prompts-
 - -1st Session
 - -6th Session &
 - -12th Session
- Maintenance
 - -4 weeks after
 - -8 weeks after
 - -8th grade SOL Writing test

Future Research

· Long term, regular use of

technology on **high stakes** writing assessment students with L. D.?

Future Research

- Other groups of learners:
 - -Slow learners?
 - -English as a Second Language?
 - -Cognitively challenged?
 - -Emotionally Disturbed?

Future Research

- Ramifications of having software tools available to all students?
- What effect would success in writing with technology have on student attitude about writing?

Future Research

 What effect would success in writing with technology have on student behavior and achievement in school?

Future Research

- Optimum amount of writing time,
 - physical effects on developing fingers,
 - -bodies, and
 - -minds of young students?

Future Research

 Technology features such as text to speech during practice still have a positive effect on student scores if they were not allowed those features during testing conditions?

References

- Beck, N. & Featherston, T. (2003). The effects of incorporating a word processor into a year three writing program. *Information technology in Childhood Education Annual*, 139-161.
- Hetzroni, O. & Shrieber, B. (2004). Word processing as an assistive technology tool for enhancing academic outcomes of students with writing disabilities in the general classroom. Journal of Learning Disabilities, 37, 143.

References

- Lewis, C. (2007) Technology for learning disabilities project. Central Washington University, Special Education Technology Center. RMC Research Corporation. Portland, Oregon.
- MacArthur, C. (2000). New tools for writing: Assistive technology for students with writing difficulties. *Topics in Language Disorders*, v20(n4), p85. Retrieved Wednesday, March 07, 2007 from ERIC database.

References

- MacArthur, C. A. (1996). Using technology to enhance the writing processes of students with learning disabilities. *Journal of Learning Disabilities*, 29, 344-354.
- McCutchen, D. (1995). Cognitive processes in children's writing: Developmental and individual differences. Issues in Education: Contributions from Educational Psychology, 1, 123—160.

References

 Newcomer, P. L., & Barenbaum, E. M. (1991) The written composing ability of children with learning disabilities: A review of the literature from 1980-1990. *Journal of Learning Disabilities*, 24, 578-593. SCHOOLS PROGRAM PROPOSAL

Program Name - RandélWide of OLID Software
Budget Requested - SL2 (LID OD

#Staff to be involved. Currently - 10

Everthaulty - All SPED and Inclusion teachers

Proposers. Suna Remays

Proposers.

Evaluation Plan: See ACPS Research Application for more details. Student 5° grade SOL writing core;
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student, After training backers and students writing samples will be percentically collected from classes using
Reade Witting SOLD, software with Criterion and from the comparison classes using Criterion collected from classes using
Reade Witting SOLD, software.
Maintenance writing samples and 8° grade Writing SOL, score will also be compared. We will know the
socrees of the Reade-Witte COLD group and the scores of the comparison classes.

Budger Data Description.
Thaning: 5 por 25 four section. Software: See appendix B for details
Less than \$1,2,000 00 for all PCs in both middle schools to have Read-Witte COLD software.

If will be purchased in their of \$2,5,000 00 worth of assistive technology upgrades needed and will serve all
students with special needs in both buildings! Yearly upgrade fee is less than \$1000,000 per building.

Expected Outcome(s): Students with writing defirits who use Read-Witte GOLD software will develop better
writing shills, expenence sets frustration, and become more independent and positions with writing the students with a special needs in both buildings! Yearly upgrade fee is less than \$1000,000 per building.

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lobest view.

Resources

McCunchen, D. (1995). Cognitive processes in children's writing Developmental and individual differences. See on Manaion:
Contributions from Educational Psychology, J. 123-100.

Herecomer, P. J., & Brenchum, E. M. (1991) The wr

