



Keyboarding, Reading, and Spelling (KRS). A program teaching students to use a microcomputer keyboard in the process of learning to type, read, and spell. Mastery is built into the program.

Audience Approved by U.S. Department of Education for students grade one through grade six. Supporting data also were gathered from students in grades 7-8.

Description *Keyboarding, Reading, Spelling* is an instructional program that enhances reading achievement and keyboard skills. The program uses a phonetic approach to reading, with the microcomputer being an essential component of the instructional process. The computer does not replace the teacher in instructing, but rather provides opportunities for students to master skills through reinforced practice. The software runs on IBM PC-compatible computers and requires a CD-ROM drive; a color monitor is preferred, but not required. It can be networked.

The program works whether one or more computers are available to a class or whether there is a computer lab in the school. Although the teacher teaches some skills, students are independent as they work at the computer. KRS will help ensure students' competency in reading, writing and communicating and their adaptation to new technologies. (National Goals 3 and 5)

Evidence of Effectiveness Students in grade 1, using the typewriter version of the program, demonstrate reading achievement scores, as measured by the *CAT*, that are higher than scores of students in a true control group, at a statistically significant level ($p < .01$).

Students in grade 3, using the microcomputer version of the program, demonstrate reading comprehension and speed-and-accuracy scores, as measured by the *Gates-MacGinitie Reading Tests*, that are higher than scores of students in a non-equivalent control group, at a statistically significant level ($p < .01$). Typewriting and computer usage skills are also statistically significant for the experimental group when compared to the control group. Visual and auditory memory skills improve significantly.

Students in grades 1 through 6 using the KRS program demonstrate reading vocabulary, comprehension, and language skills scores, as measured by the *Metropolitan Achievement Test*, significantly higher ($p < .01$) than scores of control students who also spent an equal amount of time in the computer lab in other computer programs. Computer usage and typing skills are also statistically significant for the experimental group when compared to the control group.

Requirements A one-day preparatory in-service education program conducted by a Reid Foundation staff person is desirable. The program includes lecture and practice sessions. It would be advantageous to the trainees to have IBM PC-compatible computers available. It is desired that data from pre- and posttests are sent to the Developer-Demonstrator. The honorarium is \$1000.00 per day plus expenses.

Costs DOS/Win CD-ROM \$59.95, includes instructor's manual. DOS/Win 5-CD's \$195.00, includes instructor's manual. KRS School Network System: \$59.95 + \$30.00 per computer on network, includes instructor's manual.

Services Awareness materials are available at no cost. Visitors are welcome by appointment at project site and additional sites in other states. Project staff is available to attend out-of-state awareness meetings at no cost. Training can be done at project site or at adopter sites. An awareness videotape is available for rental. Training and awareness can take place the same day.

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