# Accelerated Reading: Silent Sustained Reading Camouflaged in a Computer Program?

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According to Trelease (2001) there have been no significant changeadisqusteortess between 1971 and 2000 despite numeroesfoets/migher standards, twelve years under a Democratic administration, and eighteen years under a Republican administration. Clearly, the is a strong needfoothis reading problem. Over the past two decades identicating programs have been looked at as ways in which to remedy the area difficient indicated a calamity. This paper provides an overview of recent research findings and papers, the major

Students using the program select a book of their own choosing (from the preselected AR I and then take a multiplatice comprehension quiz on the book at the computer. Students reading selections (books) are determined by the number of AR quizzes the school has purchased. An averageonomy kithat contains 1,000 quizzes is currently priced at \$1,299.00, plus a .99¢ per student service support package. Schools can select from a list titles or create one from Allerent listing of over 73,987 books on the AR list written in English and 5,274 written in Spanish (Mabie 2005). Books are not included in the package a each school must make book purchases independently from AR. Thecontraining kits, inservice training sessions, and followofessional development for an additional price. Schools can also purchase such supplemental materials as a technical support contract and selection of motivational materials for situaleding Eshirts, book bags, backpacks, and bookmarks (Education Commission of the States 1999).

#### **AR Selection Process**

According to Heidi Mabie (2005), a spokesperson for Renaissance Learning (RL), RL quiz writers make book selections based up onthemetiseenough content for them to create five good questions. Quiz writers also make their book decisions based upon the number of required they receive for a particular book. RL quiz writers include people with educational background teachers, and the asked if librarians were also part of the team of quiz writers, Makesaid it was quite possible and likely.

According to 2(a)4(4(dun7lx4(4(d2(t)-2(e)4(r)(ona)4(l)-2opm)-2(e)m t)-2(4(s)-1(e)4(nt)-2(

level reading skills, while a student report record provides a list of books read by each studend the scores for quith Reports can also monitor the progress of groups or classes of students (Education Commission of the States 1999). Studentsockakestscharte composed of admittedly litecall question(Institute for Academic Excellence 1998). There is only one specific correct answer to each question (Pavonetti, Brimmer, and Cipielewski 2002/2003, 308).

## Chronological Highlights of Accelerated Reader Research

Most studies of AR were initially conducted by the Institute for Academic Excellence, a subsidiary of Advantage Learning that provides research and professional development service Several large development initiality studies compared schools that purchased AR to schools that did not and found higher scores in multiple subject arretage of sachragis using the program (Education Commission of the States 1999; Institute for Academic Excellence 1999; School Renaissance Institute 1999; Paul, VanderZee, Rue, and Swanson 1996; Paul, Swansor Zhang, and Hehenberger 1997; Vollands, Toppointograms 1996; Peak and Dewalt 1994). A number of research studies have attempted to explore ARfprotivermess. The following section presents brief research highlights over the past six years. (For a more det presentation of AR research 2003).

Goodman (1999) evaluates AR as implemented at a middle school in Arizona for a one year period. The total population of 282 students (seventh and eighth graders) participated in the program. There was no experimental or control group to compare results. Goodman reports students demonstrated a statistically significant improvement in vocabulary and a gain in comprehension in grade equivalent scores, but not statistically significant gains. There was description of how the AR programs being instituted other than the grades themselves were divided to enable each half to meet in the library where they sat at-teachermand diagonal entaccess to four computers to take AR quizzes.

Scots (1999) dissertation, involved students raving disabilities to determine if the AR program had an effect on reading achievement and attitudes toward reading. A treatment ground consisted of sixteen middle school students using AR. A control group of twelve middle school students did not user. An estudy took place over amount period and followed a pretest posttest design. Students in both groups completed a STAR reading comprehension test at beginning and the end of the study. Students were also administered the Estes Reading Att

The experimental class had access to AR for six months frost extended to the opportunity to use points for tangible rewards (Vollands et al. 1999). For five weeks the experimental group received only fifteen minutes of reading time ptimeday fter this was increased to thirty minutes reading time, plus thirty minutes of being read to by the teacher. The control group had regular class teaching of reading, including thirty minutes of reading time per day throughout the experimental group had regular class teaching of reading, including thirty minutes of reading time per day throughout the experimental group had regular class teaching of reading, including thirty minutes of reading time per day throughout the experimental group received only fitted that the control group had regular class teaching of reading, including thirty minutes of reading time per day throughout the experimental group received only fitted that the control group had regular class teaching of reading, including thirty minutes of reading time per day throughout the experimental group received only fitted that the control group had regular class teaching of reading also had to complete written feedback to the teacher on each book they completed. A few extra books were provided for students of lower reading ability (Vollands al. 1999).

In Project B the experimental class was a sixth gradeclassist tool to troub was a fifth grade class. The sixth grade AR class had our west tydents and had access to AR for six months, including AR books and public display of AR points, but no opportunity to exchange points for rewards. According to Vollands hed quality of implementation of AR was adequate only towards the end of the 2005 ect

The control group of two typounger students were more able readers relative to their age than the AR class. The control group experienced regular telasting supplemented by fifteen minutes of individual silent reading time each day and group oraterstribing to a selection of nove(206). During the group reading sessions the teacher quizzed the students the content of their reading. Homework assignments were given at the end of each book of with written comprehension quizzes. The teacher also created reading comprehension puzzle worksheets, secret messages, and so on for the class to complete either in class or at hom (Vollands et al. 1999).

The outcome assessment reading quotients for both the experimental and control group a statistically significant increase over the experimental period, and the control group show larger gain from a higher base was imperfectly controlled and the classes in the two groups acknowledge that the study was imperfectly controlled and the classes in the two groups and comparable.

Facemires (2000) masters thesis explores the effects of AR on the reading comprehension scores of third graders. Herweigle study looks at twograide-classes within the same school. The experimental group of fifteen students used AR and the contrologroup of twenty did not. The STAR Reading program was upredated postest both the experimental (AR) and control (nAR) group. The experimental group demonstrated significant gains on the STAR Reading program. Although this study involved few children and the time span of nine weeks was short, it demonstrates results in favor of AR. The small sample size does pose problems. Krashen (2003) explains group . . . contained one child who gained 2.3 years in nine weeks! If we remove utthis the AR mean gain drops to about four months. The comparison group had one child who got much worse, dropping more than one year (1.1 nine weeks. If we remove this outlier, the comparison mean increases to three and a half m (12). Still, Krashen (2003) agrees that this study is agstepiirincttimenritatere is a comparison group, and an attempt is made to note the amount of 12 adding done

significant difference in the reading comprehension level of those who experienced independence reading and those who experienced AR. There are serious limitations in this study including limited time frame and the fact that the students received the reading assignments from the principal of the school and not the researcher.

Pavonetti, Brimmer, and Cipielewsi (2002/2003), interested in exploring the claim that AR builds lifelong readers, investigated whether seventh-

- x timely, supportive, and interactive feedback from teachers,
- x teachers who will employ motivational strategies that excite students about books, a
- x teachers who will ensure that students are provided with reading material appropriat challenging for their reading level.

Notice that all of the above is quitededepoer AR. AR offers a quick and easy instantaneous record keeping component for teachers which make their lives easiery this faricits have corrupted what was designed as essentially a bookkeeping system, converted it to part the reading appram, and encouraged students to read for points tied to report card grades (Pavonetti, Brimmer, and Cipielewski 2002/2003, 309).

Perhaps the most important advice in considering the use of AR in a school or district is the following from the Education of the States (1999, 6):

Accelerated Reading is designed to be used as supplemental instruction and does not the place of a main reading program. The -chultipeleformat of quizzes is useful in gauging literal comprehension of then deaxts easing studenteeding level, but has no mechanism for helping students explore story ideas or apply structury their personal experiences.

## AR CANNOT Replace School Library Media Professionals or School Libraries

The AR program cannot be used as a stand alone program. If educators choose to use AR the must accept its limitations supplemental too 2001, 28). AR cannot be a substitution for school libraries, or school library media professionals. Although Renaissonce Learning efforts to match quizzes to the books found in a typical school library is laudable, school librare distinct learning communities, each of which has unique information and learning needs extend far beyond just books. School library mediates process information professionals, are experts in identifying the information resources their learners (teachers, students, and famineed. Such knowledge includes all traditional detarthedia (books, magazines, newspapers) as well as electronic unitarial, and community resources as well.

AR s primary goal is to increase literastedereading practice (Education Commission of the States 1999). This goal represents an important but substantially smaller portion of the foothigh quality school library media programs which diverse far beyond a room with books to become an active, technologylearning environment with an array of information resources (ALA 1998, 1). Although AR stresses the importance of enabling children to have access to literature via books, school library media specialists know that to survivierist the twenty century students need to be familiar with a wide variety of reading and informational mater an extensive array of formats: bookspersagrezivspapers, radio, television, movies, electronic sources, databases, Web pages, blogs, and so on. Innovations in traditional printir

not the student has read the AR (brosdistruter Academic Excellence 1999). Although AR operates under the beliefprimatice makes perféchool Renaissance Institute 1999, 7) AR does not enable students to:

- x analyze complex and conflicting presentations of information
- x appreciate the variety of perspectives offered by individual viewpoints, scholarly disciplines, and cultural understandings
- x use information competently in critical thinking, decision making, and problem solving
- x produce new information and create products and prese**rations**;caltation efficiently and effectively
- x act responsibly in regard to information, particularly with respect to the difficult issuintellectual freedom, equitable access to information, intellectual property rights (ALA 1998)

It is the school diby media specialist in each school, and the librarian in each library, who, as information professionals, possesses the skill and knowledge to perform all of the above. The school library media specialist, as the informational hub of a school library media specialist, and community members with the information resources the need. The school library media specialist the contributes to and draws from the expertise of the entire learning commu(AitA) 1998, 3).

Krashen 1(993) states that there is a negative relationship between poverty and the amount reading at home. Krashen explains that 30 to 97 percent of students obtain their books frowing find of a library. A substantial body of literature of oxieves dudity dating back over six decades documents the impact of school library media programs on academic achievement (Lance 2002).

No educational software program to date can compete with that performance.

### A Research Challenge

It would be interesting to steely comparing two schools with a comparable student body, experienced, teachers, qualified school library media specialists nded aideninistrators. One school would use AR in the best ways endorsed by the company, including of course si minutes of sustained silent reading The other school would do everything the same (including SSR) except they would eliminate the AR quizzing of students. Administrators, teachers and school library media specialists would actively collaborate and tides ignational connectstudents to books and appropriate curriculum enhancement materials. School librar media specialists would hold book talks and encourage students and teachers to engage in designed book sharing demonstrations with sthe further would incorporate the use graphic organizers, images, and drawings to present highlights of the books they were read Skits and plays could be performed. The art, music, and physical education teachers would participate and actively contentibueir expertise. The building principal would provide support and resourcesading time and reading materials and encourage children, teachers, and parent to read. Teachers and school library media specialists would set up interactive interviews w children to discuss the books they each (teacher and student alike) were reading. Children help select not only the books they wanted to read, but they would destign passects to

their book or reading with others in the community. At the end of a year it would be interest

to see if there was a discernable difference between the two groups in both reading attitude reading comprehension.

## Reading Requires Time

We must accept that fact that there will never be a silver builded the theodydding crisis. We need to acknowledge that in order to develop good reading habits students and teachers need to be provided with regularly scheduler admentation that they have read. Unfartely, teachers feel uncomfortable when students are allowed to just read, a perception Kamarian (2001) attributes to their traditionareliance on basals, direct instruction, and skill development (43). Learners of every age need environment that encourages them to read recreationally, think creatively, explore with curi and revel in new knowledge (Pavonetti, Brimmer, and Cipilewski 2002/2003). This does not involve a simple decision to allocate funds for a technological book-

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