Providing the Context for Intentional Learning

Annemarie Sullivan Palincsar

*This article is written in response to Sharon Derry's article
"Remediating Academic Difficulties Through Strategy
Training: The Acquisition of Useful Knowledge." The
features of effective strategy instruction, to which Derry
refers, are illustrated by examining the nature of the
decisions the teacher confronts; specifically, determining
the purposes of instruction, the context in which instruc-
tion occurs, and the roles of the teacher and students in
instruction.*

I RECENTLY OBSERVED a resource room teacher
working with two fifth graders, identified as learning
disabled. The children had a workbook page that was
entitled, "Studying main ideas and details in paragraphs."
The page consisted of 10 brief, unrelated paragraphs.
From each paragraph there was a word deleted. The
children were to read ahead and complete the cloze task
by choosing the best alternative of three possible choices.
The teacher introduced the page by telling the students
that they would be studying main ideas and details in
paragraphs. The teacher completed the first item by
reading the paragraph aloud; he then read each of the
possible choices for the deleted word and asked the
children to help him select the correct one. The children
selected the first option, which happened to be the cor-
rect one. Without further ado, the teacher suggested that
the children work together to complete the page, and
he would help them with those words they found dif-
ficult. The children painfully began decoding the next
paragraph, up to the deleted word. They then examined
their three choices. Tentatively, one child, looking at
the teacher, selected the first choice. "Prove it to me,"
the teacher replied. As though on cue, the second child
identified the second choice, which happened to be the
correct one. The children and teacher continued in this
manner until the page was finished. As attentive as the
children were to the completion of this page, there was
no indication that they had so much as a clue as to what
they were doing.

In reacting to Derry's thoughtful piece on the remedia-
tion of academic difficulties through strategy training to
acquire useful knowledge, I would like to focus on the
lesson mentioned above, illustrating how the lesson

might have transpired had it reflected the characteristics
of instruction to which Derry refers. This is not an exer-
cise in criticizing the teacher; in fact, this teacher cares
very much about his students, and his classroom rou-
tines reflect many positive features. It is, rather, to illus-
trate how classroom routines become automatized at the
expense of the thought and reflection necessary for in-
tentional learning, which is at the heart of Derry's
discussion.

Bereiter and Scardamalia (1989) used the term *inten-
tional learning* to refer to "those cognitive processes
that have learning as a goal rather than an accidental out-
come" (p. 363). Teaching for intentional learning means
cultivating those general abilities that will facilitate life-
long learning in an array of situations. Let us examine
this lesson to determine its potential for enhancing in-
tentional learning. We will examine the purpose of the
activity, the context in which it occurred, and the roles
of the teacher and students in the instruction.

First, what are the general abilities such an activity
fosters? The goal of reading is the construction of mean-
ing. This construction ·occurs through the interplay
among graphophonemic, syntactic, semantic, and sche-
matic analyses of text (Idol, 1988). The completion of
cloze activities affords the student the opportunity to
engage in each of these analyses. The way in which this
particular worksheet was constructed emphasized seman-
tic and schematic analyses. To figure out the missing
word, the children were expected to read ahead and
determine, from the additional content, which word
would make the best sense. Indeed, reading ahead and
rereading are important learning tactics that successful
readers use for the purpose of comprehending text, and

less successful readers fail to engage (Garner & Reis, 1981).

Interestingly, it is not that difficult to teach students the tactics that Derry refers to. Children can be taught, within several lessons, to reread or read ahead for information. What is difficult is teaching tactics or strategies such that *they make a difference in how children generally approach learning situations,* that is, such that children enlist these tactics for the purpose of enhancing their understanding of text in an array of situations. I am referring, of course, to the thorny issue of transfer, to which Derry makes passing reference and with which teachers are well acquainted. To achieve transfer it is necessary to attend to the context in which instruction and practice occur; transfer is likely to occur to the extent that there are common elements between the situation in which the children are learning this tactic and the situations in which such a tactic would be useful (Brown, Bransford, Ferrara, & Campione, 1983).

There are several dimensions of context that are problematic in this lesson, including the use of multiple choice responses, author-designated cloze items, and abbreviated paragraphs. It is difficult to imagine any occasion in the activity of "real reading" in which children would encounter a similar situation. Had the tactics of rereading and reading ahead been taught in the context of the children reading extended, coherent text in which they experienced the need to reread and read ahead by virtue of what they, rather than the publisher, determined to be obstacles and without the benefit of artificial choices, there would have been multiple elements shared by the instructional/practice context and the demands of authentic reading. Furthermore, the reading of extended, coherent text would have provided the children the occasion to acquire *useful* knowledge to bring meaning to the text.

Derry has suggested that the motivational problems exhibited by students with learning difficulty can be addressed through attributional retraining and training in self-management of motivation. Contextualized practice is yet another motivational component we must attend to. The motivation to persist in an activity might well lie in the recognition that the activity is worthwhile and in the chance to evaluate its worthiness in meaningful contexts (cf. Resnick, 1989).

To conclude the discussion regarding context, observational research suggests that the fragmentation and incoherence marking this lesson may be particularly characteristics of practice in special education and remedial settings. Allington (1986), Hiebert (1983), and McGill-Franzen and Allington (1990), among others, have demonstrated (a) "individualized instruction" often translates into children working alone on low-level skills tasks, (b) remedial materials do not comprise interrelated activities, and (c) the reading and writing of extended texts rarely appear in the lessons of these learners. Examining the context in which we attempt to remediate academic difficulties is an essential endeavor for those who work with special needs, at-risk, and remedial students.

For the moment, let us return to the context in which this lesson was conducted and discuss the roles of the teacher and students. What activity on the part of the

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teacher and students is likely to promote intentional learning on the part of the students? The extent to which the child becomes an intentional learner depends on the extent to which the child is invited to collaborate in the learning activity and subsequently feels in charge of learning. This has numerous implications for how the lesson might have proceeded.

First, attempts need to be made to understand the child's representation of the activity. Students experiencing academic difficulty often display an impoverished conceptualization of learning. Before the teacher provided instruction, he would have found it very informative to ask the children what they thought would be the most useful way to complete the page. This would have given the teacher the chance to understand how the children represented the task. The children in this lesson appeared to equate learning with a product (completion of the worksheet), in which case they are more likely to engage in incidental rather than intentional learning. In addition, the teacher would have a sense of what tactics the children might enlist in the completion of this activity. The children could then refine or revise these tactics as they attempted to apply them to the completion of the page.

Let us assume that the children had an inadequate understanding of the activity and little sense of an appropriate approach. It was incumbent upon the teacher to provide this information by describing the purpose of the activity and procedure. To illustrate: The teacher might have said, "Sometimes when we are reading, we come to a spot where we don't understand what we are reading anymore. This may be because there are hard words or the author has not given us enough information. When that happens, it is often helpful to go back and read again or to read ahead and see if the author gives us more information that helps us to make sense of what we are reading. In this lesson, the author has left certain words out. To figure out which word best fits in the blank, we will practice rereading and reading ahead."

After this type of purpose-setting, it is useful for the teacher to model the activity, in order to make "visible"

the ordinarily invisible processes of problem solving that Derry refers to: knowledge construction, comprehension monitoring, and recovery from misunderstanding. For example, rather than have the children guess which word best fit in the first cloze task, the teacher might have demonstrated the process of reading ahead to determine which word would fit and then have modeled self-checking by matching his selection with the three that were suggested by the authors.

Following the modeling, the teachers would provide the students guided practice. Interestingly, the teacher's prompt to "prove it" after they had made their selection could have provided an excellent means of guiding their practice. Unfortunately, in this lesson, "prove it" became a cue that the children had made the wrong selection, rather than an invitation and challenge to justify their answer and make visible to the teacher as well as themselves the processes they used to complete the cloze tasks.

Finally, if this activity were conducted in the cloze context, at best it might serve as an introductory lesson to using rereading and reading ahead as fix-up tactics when comprehension falters. Guided practice in the use of these tactics would then need to occur in the reading of extended text.

Derry raises another issue, which cannot be addressed within the context of analyzing the cloze lesson but that has significant implications for those who work with special education students and those at-risk for academic difficulty. Important to the application of strategy instruction is an understanding of the specific knowledge and skills that underlie performance in the academic areas. This trend toward specificity entails a different kind of knowledge on the part of the educator. The teacher needs to be aware of the knowledge and cognitive processes that are recruited by specific academic tasks; it is particularly important that special and remedial educators (who are in many respects generalists) work closely and effectively with content area teachers to identify this knowledge and process.

Conclusion

In the special education and remedial literatures there are now numerous ways in which strategy instruction is represented (cf. Harris & Pressley, in press; Palincsar, Winn, David, & Stevens, in press). For example, the following are models of strategy instruction that have been investigated with special education and at-risk populations to improve reading comprehension. The models are based on varying assumptions regarding the teaching and learning processes; however, each model has as its premise the belief that academic difficulty can be remediated through strategy instruction.

There are direct instruction models (cf. Bauman, 1988) that place a heavy emphasis on the task analyses to which Derry refers, as well as the guided practice of

isolated steps in strategy acquisition. Cognitive behavior modification (cf. Ryan, Weed, & Short, 1986) represents an approach in which students come to regulate their performance by means of internalizing a prescribed set of monitoring statements (once again determined through task analysis) before, during, and after performing a task. The Strategies Intervention Model (Deshler & Lenz, 1989) shares many characteristics with direct instruction and cognitive behavior modification, to the extent that strategies are taught as a series of sequenced steps. However, the Strategies Intervention Model occurs in two phases. In the first, or acquisition, phase the focus is on teaching students the knowledge to apply the strategies in a supported setting, outside of the general classroom; in the second, or generalization, phase students learn to apply the strategy in the classroom setting.

The direct explanation approach (Duffy et al., 1987) postulates that any skill can be recast as a strategy by explicitly providing students declarative, procedural, and conditional knowledge about the use of skills. In this instruction, there is particular attention to thinking aloud the mental processes involved in using the skill as a strategy.

Finally, in reciprocal teaching (Palincsar & Brown, 1988), there is less emphasis on teacher explanation and practicing the steps of a strategy (characteristic of the previous models) and more emphasis on students collaborating with teachers to use strategies in a wholistic fashion to understand text.

Research on each of these models supports, at least to some degree, the benefits of strategy instruction. Unfortunately, classroom observational studies suggest that strategy instruction has not yet assumed prominence in special education or remedial settings (Swanson, 1984; Ysseldyke, Thurlow, O'Sullivan, & Christenson, 1989).

Derry's piece provides a useful template for evaluating these various models, for thinking about the critical features of strategy instruction, and for considering the diverse ways in which strategy instruction is represented to teachers and children. ▲

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References

Allington, R.L. (1986). Policy constraints and effective compensatory reading instruction: A review. In J. Hoffman (Ed.), *The effective teaching of reading: From research to prac-*

tice (pp. 261–289). Newark, DE: International Reading Association.

Baumann, J.F. (1988). Direct instruction reconsidered. *Journal of Reading Behavior, 31,* 712–718.

Bereiter, C., & Scardamalia, M. (1989). Intentional learning as a goal of instruction. In L.B. Resnick (Ed.), *Knowing, learning, and instruction: Essays in honor of Robert Glaser* (pp. 361–392). Hillsdale, NJ: Erlbaum.

Brown, A.L., Bransford, J.D., Ferrara, R.A., & Campione, J.C. (1983). Learning, remembering, and understanding. In J. Flavel & E.M. Markman (Eds.), *Handbook of child psychology, Vol. 3,* (4th ed., pp. 143–192). Hillsdale, NJ: Erlbaum.

Deshler, D.D., & Lenz, B.K. (1989). *The strategies instructional approach.* Unpublished manuscript, University of Kansas, Lawrence.

Garner, R., & Reis, R. (1981). Monitoring and resolving comprehension obstacles: An investigation of spontaneous lookbacks among upper-grade good and poor comprehenders. *Reading Research Quarterly, 16,* 569–582.

Duffy, G.G., Roehler, L.R., Sivan, L., Rackliffe, G., Book, C., Meloth, M., Vavrus, L.G., Wesselman, R., Putnam, J., & Bassiri, D. (1987). Effects of explaining the reasoning associated with using reading strategies. *Reading Research Quarterly, 22,* 347–368.

Harris, K.R., & Pressley, M. (in press). The nature of cognitive strategy instruction: Interactive strategy construction. *Exceptional Children.*

Hiebert, E. (1983). An examination of ability grouping for reading instruction. *Reading Research Quarterly, 18,* 231–255.

Idol, L. (1988). Johnny can't read: Does the fault lie with the book, the teacher, or Johnny? *Remedial and Special Education, 9*(1), 8–25.

McGill-Franzen, A., & Allington, R.L. (1990). Comprehension and coherence: Neglected elements of literacy instruction in remedial and resource room services. *Journal of Reading, Writing, and Learning Disabilities, 6,* 149–180.

Palincsar, A.S., & Brown, A.L. (1988). Teaching and practicing thinking skills to promote comprehension in the context of group problem solving. *Remedial and Special Education, 9*(1), 53–59.

Palincsar, A., Winn, J., David, Y., & Stevens, D. (in press). Models of strategy instruction reflecting different assumptions regarding teaching and learning. In L. Meltzer (Ed.), *Cognitive, linguistic, and developmental perspectives on learning disabilities.* Boston: College-Hill.

Resnick, L. (1989). Introduction. In L.B. Resnick (Ed.), *Knowing, learning and instruction: Essays in honor of Robert Glaser* (pp. 1–24). Hillsdale, NJ: Erlbaum.

Ryan, E.B., Weed, K.A., & Short, K.J. (1986). Cognitive behavior modification: Promoting active self-regulatory learning styles. In J. Torgesen & B. Wong (Eds.), *Psychological and educational perspectives on learning disabilities* (pp. 21–36). New York: Academic Press.

Swanson, H.L. (1984). Does theory guide teaching practice? *Remedial and Special Education, 5*(5), 7–16.

Ysseldyke, J.E., Thurlow, M.L., O'Sullivan, P., & Christenson, S.L. (1989). Teaching structures and tasks in reading instruction for students with mild handicaps. *Learning Disabilities Research, 4*(2), 78–86.