60

Harvard Educational Review Vol. 78 No. 1 Spring 2008

Copyright © by the President and Fellows of Harvard College

Redefining Content-Area Literacy

Teacher Education: Finding My Voice

through Collaboration

RONI JO DRAPER

Brigham Young University

In this essay, Roni Jo Draper reflects upon her professional journey as a content-area

literacy teacher educator, describing how she first became a literacy teacher educator

and how she later came to collaborate with a group of teacher educators who specialize

in disciplines such as music, theater, and mathematics. Drawing upon ethnographic

data from the group’s participatory action research project, she explains how their

collaboration shaped her understanding of her own professional role and expanded

her definitions of texts, content-area literacy, and literacy itself. Informed by insights

she gained through the project, Draper argues that content-area literacy instruction

should promote mastery of the intellectual discourse within a particular discipline.

She also suggests ways to increase collaboration between literacy and content-area specialists

working in the field of teacher education.

I am a content-area literacy teacher educator. My vocation is to help content-

area teachers infuse their content instruction with literacy instruction

(O’Brien, Stewart, & Moje, 1995). While some have argued that content-area

literacy teacher educators ought to rename their work in this area as work in

adolescent literacy in order to keep adolescents in focus when discussing literacy

instruction (see Moje, Young, Readence, & Moore, 2000), I have chosen

to keep the focus on content-area literacy. I do this not because I value content

over students, but because content-area literacy should not be directed

toward one particular age group — in this case, adolescents. Rather, contentarea

literacy should be addressed throughout the education of all children

and youth. This is particularly crucial now, when content-area teachers must

educate increasing numbers of students with linguistic differences, and thus

teachers must face the dual task of teaching content and literacy. Despite this

declaration, my remarks in this article are clearly focused on the preparation

61

Redefining Content-Area Literacy Teacher Education

roni jo draper

of secondary teachers and their future work with adolescent students because

that represents the focus of my professional role at the university.

Literacy educators have not settled on a singular aim of content-area literacy

instruction. Some descriptions suggest that content-area literacy should be

a goal of instruction, whereas others suggest that it should be a tool to enhance

or enable learning. For example, when Simpson (1954) admonished that “no

matter how poorly or how well high school students can now read, every high

school teacher can help them to read with better understanding the textbook

and the other materials that are required in his course” (p. 3), he was clearly

advocating literacy as a goal. However, McKenna and Robinson (1990) have

described it more as a tool, explaining that “the notion of content literacy . . .

suggests that students’ understanding of the content presented in all subjects

could be substantially enhanced through appropriate writing assignments

or through supplemental reading,” and thus that “content literacy does not

require content-area teachers to instruct students in the mechanics of writing”

(p. 185). Similarly, Vacca and Vacca (2005) have argued that the “term content

literacy refers to the ability to use reading, writing, talking, listening, and

viewing to learn subject matter in a given discipline” (p. 7). Fisher and Ivey

(2005), writing for literacy teacher educators, have stated clearly that “‘every

teacher a teacher of reading’ is not working” (p. 6). They have suggested that

literacy teacher educators instead move the discussion of content-area literacy

away from a focus on teaching reading and writing — literacy as a goal — to

a focus on reading and writing as tools for learning by “capitalizing on reading

and writing versus teaching reading and writing” (emphasis in original, p. 6).

However, such a focus on content-area literacy as a tool suggests that any reading

and writing done by students, as long as it is in the service of learning, is

legitimate. In contrast, a focus on content-area literacy as a goal suggests that

instruction around texts in content-area classrooms must focus on texts appropriate

for learning, communicating, and participating.

My job as a content-area literacy teacher educator entails promoting literacy

and literacy instruction across the curriculum. I have increasingly acted

to support content-area literacy as a goal of instruction because I believe that

one who has content knowledge must have the skills related to using contentarea

texts to communicate and participate, as well as to learn. I have found

myself working with preservice teachers from a variety of disciplines or, in

some cases, an entire middle or high school faculty, trying to help them reconsider

their role in promoting literacy and providing literacy instruction. I have

explained, in words similar to Gray’s (1925), that “each teacher who makes

reading assignments [in their content area] is responsible for the direction

and supervision of the reading and study activities that are involved” (p. 71).

Like other content-area literacy teacher educators, I have faced teachers, both

preservice and in-service, who question the efficacy of literacy instruction for

their classrooms; who question their ability to promote literacy; and who question

whether doing so will take time away from content instruction (Ratekin,

62

Harvard Educational Review

Simpson, Alvermann, & Dishner, 1985; Stewart & O’Brien, 1989). These questions

have prompted me to seek more convincing arguments for content-area

literacy than the traditional tool-versus-goal dichotomy.

My search for a clear aim for content-area literacy instruction and ways to

promote content-area literacy with secondary teachers has been aided by collaborations

with content-area teacher educators from a variety of disciplines

(e.g., music, theater, and mathematics). We have conceptualized our work

together as a form of participatory action research (Kremmis & McTaggart,

2000; Reason, 1994). One of the basic tenets of participatory action research

is that participants serve simultaneously as coresearchers and corespondents.

As such, we have established co-ownership of our research and have opened

ourselves to interrogation as we have simultaneously interrogated each other.

Participatory action research is preferred when individuals seek ways to do

research with others rather than on others, with the goal of understanding and

improving practice. In this case, our goal was to investigate content-area literacy

and to improve our work with preservice teachers.

Through my collaborations with other teacher educators from areas outside

of literacy, I have come to question universal claims made by some contentarea

literacy educators, such as:

• literacy instruction should happen in all classrooms regardless of content;

• literacy instructional methods can be modified for instruction in all content

areas; and

• all content-area teachers would benefit by taking a course in content-area

literacy methods.

While these are not all the claims, they capture the essence of those commonly

made by content-area literacy teacher educators. These claims imply

that literacy methodologies, with slight adjustments, can be used in “any reading-

based lesson in any subject at any level” (Manzo, Manzo, & Estes, 2001, p.

45). Indeed, through my collaborations I have come to question anew the purpose

of content-area literacy instruction, the promises made about the potential

of content-area literacy instruction, and the universality of instructional

practices recommended to teachers in order to enact content-area literacy

instruction across all content areas.

Ultimately, these questions have led me to rethink what it means to be a

content-area literacy teacher educator. My rethinking has been aided by my

collaboration with teacher educators in other fields. These collaborations

eventually caused me to doubt the value of advice I could offer to all teachers,

regardless of the content. For example, after several weeks of observing my

colleague Dan as he taught a mathematics course for preservice elementary

teachers, I said to him:

I know a lot of methods for teaching people how to read and comprehend. . . .

I’m not in a position right now of knowing if that would help. . . . I’m not getting

a sense [that] maybe it would help if [you taught with] a different kind of activ 63

Redefining Content-Area Literacy Teacher Education

roni jo draper

ity to help students get [the mathematics]. . . . So that makes me question, well,

maybe the reading [instructional] strategies that I have — not that they won’t

apply, or they don’t apply, but maybe there are other ways to [teach students how

to read and write mathematics] that are just as effective. (personal communication,

March 8, 2001)

Dan’s mathematics instruction was based on his understanding of both

mathematics and social constructivist pedagogies, as advocated by school

mathematics reforms and standards documents (National Council of Teachers

of Mathematics [NCTM], 1989, 2000). As I watched his instruction each week,

I was struck by how masterful he was in helping students develop rich images

for fractions, make sense of the various operations with fractions, and comprehend

other mathematical concepts. I also watched as he helped his students

learn how to describe and justify their thinking with drawings and other writing.

I could not imagine that Dan would be able to improve the instruction

with any guidance I might offer him as a literacy educator. The realization

that I seemingly had nothing to offer a mathematics instructor caused me to

rethink my position as a content-area literacy educator. I began to “be critical

of my own biases,” namely, my belief that appealing to content-area literacy

instructional methods can improve mathematics instruction. I went even

further, questioning my purpose as a content-area literacy teacher educator.

If Dan’s students were engaging in deep mathematics discussions, learning

mathematics by developing images, and describing and justifying their thinking

with manipulatives, pictures, and written explanations — activities that I

considered literacy — and he did this all without considering literacy explicitly

or tapping into literacy instructional practices, what could I offer to improve

the mathematics learning and literacy of his students?

My doubt has led to inquiry about the nature of content-area literacy and

my role as a content-area literacy teacher educator. In the process, I have realized

that my inquiry would require me “to be at all times ready to dump [my]

whole cartload of beliefs” (Peirce, 1955, pp. 46–47). In this article, I describe

how I have come to rethink content-area literacy instruction and lay out the

two broad positions I have taken as a result of my work with my teacher-education

colleagues. I will contextualize these positions within my work with my

collaborators and against my past writing about content-area literacy — both

of these a focus of my personal and private theory-making — and within the

greater literature about literacy and literacy instruction, with an emphasis on

connecting my private theories to public theories.

My Journey to Content-Area Literacy

I came to content-area literacy by way of mathematics teaching. I find mathematics

beautiful. I became a teacher because I believed I could demystify

mathematics for young people and help them appreciate the beauty I found

in the subject. Since “everyone knows that there is no reading in mathematics

64

Harvard Educational Review

classes,” while a preservice mathematics teacher I sat in my required contentarea

reading class (like many of my peers) wondering why I was required to

take the course. But I enjoyed it. The professor was dynamic and passionate,

and I found myself trying to make connections between the ideas presented in

class and my burgeoning understanding of mathematics teaching. In the next

semester I began student teaching at a local middle school, where my cooperating

teacher hoped I could help him and the other mathematics teachers figure

out how to help students read their new math textbooks. Not knowing quite

what to do, I sought guidance from my former content-area reading professor.

I continued to work with this professor during my first years of teaching.

So, while I tried to engage in meaningful instruction as a mathematics teacher

at a local high school, I also continued to take graduate courses in literacy,

despite being accepted into a mathematics master’s program. I came to view

content-area literacy as a way to help my high school students — many of them

Latino/a students who were learning English as an additional language —

make sense of mathematics and be able to communicate their understanding.

Eventually I switched from the graduate program in mathematics to secondary

education, with a focus on literacy education. My goal was to become a mathematics

teacher educator after completing my master’s degree. However, life

(and providence) intervened, and I found myself completing a doctoral program

in curriculum and instruction with a focus on literacy studies, ultimately

becoming a content-area literacy teacher educator.

After completing my graduate studies, I felt prepared to offer content-area

teachers ideas for supporting the literacy development of adolescent students

in every content-area classroom. I believed I had useful answers to instructional

problems and I was ready to share them freely. Like other literacy teacher educators,

because of the privileged status literacy enjoys during this era of No

Child Left Behind and high-stakes testing, my opinion has been sought by

school administrators. I have been asked to make presentations for middle

and high school teachers for entire districts. I am an instructor in a professional

development program designed to help secondary teachers (approximately

thirty each year) add a reading endorsement to their teaching certification

so they will be highly qualified to teach reading classes in middle and

high schools. Indeed, this is a great time to be a literacy teacher educator.

Despite my preparation, I have found myself as a content-area literacy

teacher educator with no classes to teach at my institution. I was hired into

a department (teacher education) that offered support to the various secondary

preparation programs distributed throughout the campus in contentarea

departments, but I did not directly oversee any of the various secondary

programs except social studies. Unlike the institution where I had done my

undergraduate and graduate studies, a content-area literacy methods course

was not usually required for secondary teaching candidates, except preservice

English teachers.

65

Redefining Content-Area Literacy Teacher Education

roni jo draper

I realize that my circumstances are not typical. Over 60 percent of U.S.

states do require a content-area literacy course as part of the preparation of

secondary teachers (Romine, McKenna, & Robinson, 1996). Despite the fact

that my home state, Utah, does not require a content-area literacy course for

licensure as a secondary teacher, all other institutions that prepare secondary

teachers within the state require the course. I doubt that many universities

hire a content-area literacy teacher educator when courses are not required.

However, my circumstances have prompted me to rethink what it means to be

a content-area literacy teacher educator. Literacy teacher educators must take

care to promote literacy in a way that includes content — knowledge about the

physical, social, and aesthetic world — or they will find that they are promoting

a literacy that is empty and vacuous. The education of all children depends

on the collective, collaborative efforts of all educators, not just those who have

chosen to make literacy their focus.

Studying Self

In order to make sense of my journey, I have engaged in a form of autobiographical

self-study (Bullough & Pinnegar, 2001). Autobiographical self-study

research allows the researcher to locate herself in her chosen field by exploring

theory through practice. Thus, engaging in self-study provides a means of

exploring my own development as a teacher educator and reflects my commitment

to that development (Bullough & Pinnegar, 2001; Loughran, 2007).

In addition, disciplined and systematic self-study work has the potential to

inform other teacher educators by connecting public issues and theories to

local struggles and personal theories. In this case, my struggle was to understand

the nature of my work or who I am as a content-area literacy teacher

educator in light of the shifting definitions of terms like literacy, texts, reading,

writing, and content-area literacy. Ultimately, my aim in engaging in this inquiry

has been to reconsider and reconceptualize my work as a teacher educator,

thereby improving my own practice and perhaps also providing suggestions

for the practice of other teacher educators (Feldman, 2003).

Content-Area Teacher-Education Narratives

Because of the situation in which I have found myself as a teacher educator —

without a program or courses to teach — I have engaged in several collaborations

with content-area teacher educators. Our mutual goal has been to work

jointly to consider the problems related to preparing secondary teachers to

simultaneously teach content and support the literacy development of adolescents.

While one could argue that these collaborative activities constitute my

scholarship as a teacher educator and not my practice, I have come to see my

work with other teacher educators as defining my practice as a content-area

66

Harvard Educational Review

literacy teacher educator. Indeed, I have shifted my practice from direct work

with preservice teachers to working with other teacher educators.

To this end, a couple of years ago I organized a group of secondary teacher

educators from across the campus (biology, physical science, art, music, mathematics,

and history) to study content-area literacy. For the past two years, the

Content-Area Literacy Study Group (CALSG) has met approximately twice a

month in one- to two-hour meetings. During these meetings we have discussed

theories related to content-area literacy, read and discussed articles on various

topics related to literacy, and considered instructional activities related to content-

area literacy instruction and their possible usefulness in various contentarea

classrooms. The goal of the group was ultimately to make changes to the

various programs, either through additional courses or by changing the content

of existing courses to help preservice teachers learn theories and instructional

strategies related to content-area literacy instruction. Because we conceptualized

the work of the CALSG as a form of participatory action research

(Kremmis & McTaggart, 2000; Reason, 1999), we collected data on our work

together, including audiotapes of meetings. These tapes were then transcribed

and distributed to all the members of the group to use in our joint inquiry.

As part of my work with the CALSG and other collaborative efforts on campus,

I have been provided access to the enacted curricula of other teacher educators

(Eisner, 1979).1 For this study I have highlighted three curricular examples

from my work with three content-area teacher educators: Paul, a music

teacher educator; Amy, a theater teacher educator; and Dan, a mathematics

teacher educator. In Paul’s and Amy’s case, these curricula were specifically

redesigned to address literacy issues and prepare preservice secondary teachers

to support the literacy of their future adolescent students. Through these

enacted curricula, I was able to consider ideas described by teacher educators

as related to literacy while they discussed literacy in connection with contentarea

aims and methodologies. In Dan’s case, the enacted curriculum was part

of a content course (as opposed to a methods course, as with Amy and Paul)

for preservice elementary teachers. In this case, I viewed the enacted curricula

of a mathematics content-area teacher as he created a classroom based

on the most recent theories and instructional practices available to help students

understand mathematics. I watched carefully for how literacy was taught

and supported, even though I knew that literacy was not an explicit goal of the

course. My work with Paul, Amy, and Dan has provided me with opportunities

to reconsider my conceptions of literacy and literacy instruction in relation to

the conceptions of content-area learning and instruction expressed by my colleagues

through their enacted curricula.

Paul: Music Teacher Education

Paul and I became acquainted when he accepted an invitation to participate

in the CALSG. Paul initially came to our meetings in order to protect the

music program and to ensure that any policies that were adopted relative to

67

Redefining Content-Area Literacy Teacher Education

roni jo draper

preparing teachers to teach literacy did not distract from the aims of music

education. When early discussions of the group were focused around adopting

a broadened definition of text, and thus literacy, Paul became interested

in continuing the discussion.

During the second semester of our work together in the CALSG, Paul

invited me to observe his teaching. He team-taught an introduction to music

education class for preservice secondary music teachers (strings, choral, and

band) in their first semester in the professional teacher-preparation program.

Paul’s role on the team of music teacher educators was to provide a philosophical

foundation for music education. As a result of our discussions, Paul

made changes to his lectures by describing an expanded notion of music literacy

beyond simply reading musical scores and music theory, and then arguing

that music literacy was the goal for all students in schools. I observed him

teaching and recorded field notes of his instruction. Paul and I met briefly

after each session to discuss his teaching. These debriefings allowed me to ask

questions about Paul’s intentions and how he felt the class had gone. I also

asked about how the session I observed differed from past sessions or from sessions

in which he had taught similar material with a narrower literacy perspective

— one that did not embrace an expanded notion of literacy that included

the conductor, the ensemble, or the musical performance. I created memos of

our debriefings immediately afterward (generally locating a quiet place near

Paul’s classroom before returning to my office). I e-mailed my observations

and memos to Paul in order to get clarifications and to ensure that I had accurately

captured his comments.

Amy: Theater Teacher Education

Like Paul, Amy accepted the invitation to participate in the CALSG. Because

of Amy’s background in theater, film, and media and her commitment to

broad notions of text that include digital texts, images, the human body, sets,

and other objects associated with film and theater, she initially attended the

meetings to argue that other members of the group (particularly me) should

embrace similarly broad notions of text. We soon became allies, since I had

been calling for similarly broad notions of text to include objects used to communicate,

learn, and practice mathematics, including symbols, equations, formulas,

drawings, manipulatives, and graphs.

During the second year of our work together, Amy invited me to observe

her as she taught the methods of teaching theater course that the preservice

theater teachers needed to complete in the semester before student teaching.

She had made changes to the content and the assignments for the course in

order to help her preservice teachers consider their roles as literacy teachers.

I visited the eight class sessions that Amy had redesigned to discuss literacy

and literacy instruction for theater classrooms. During these observations, I

created field notes of Amy’s teaching, which I shared with her. Amy also audiotaped

the class sessions and had the tapes transcribed. As I did with Paul, I

68

Harvard Educational Review

held a short debriefing session after each observation in which we questioned

each other about the day’s class. Generally, I was interested in why Amy chose

particular activities, what her instructional goals were for the day, and how she

felt the day had gone. Amy was interested in my perception of how she was

doing with the literacy aspect of her instruction, whether her explanations

were accurate and clear, and whether she had missed any opportunities to discuss

literacy with her preservice teachers. These debriefings were audiotaped

and transcribed.

Dan: Mathematics Teacher Education

Dan and I met during my first year at the university before the formation

of the CALSG. That was also Dan’s first year on the faculty, and we became

acquainted during professional development activities for new faculty sponsored

by the university. Dan, as a mathematics teacher educator, taught both

content and methods courses. I asked him if I could observe his teaching of a

content course for preservice elementary teachers, explaining that I was particularly

interested in how he addressed literacy during his teaching of mathematical

content. Dan assured me that he did not attend to literacy at all and

suggested that his class would not be very interesting; however, either due to

my persistence or his goodwill, he eventually agreed to collaborate with me on

a research project in which we investigated literacy instruction for mathematics

classrooms based on Dan’s standards-based mathematics classroom (see

Draper & Siebert, 2004, for a detailed description of our collaboration).

I attended all of Dan’s course sessions and created field notes of his instruction.

I shared the field notes with Dan, and he checked them for accuracy and

completeness. All class sessions but one were videotaped, and several were

transcribed as a part of the original research study. (For the purpose of this

current study, we used transcriptions of the audio recordings of class sessions.)

Dan and I met four times during the semester to discuss his teaching. Before

our meetings we each read the field notes; then during the meetings we discussed

our perceptions of what was occuring in Dan’s class. I shared with him

how I viewed his teaching relative to literacy instruction, and he explained his

teaching based on his understanding of current theories related to mathematics

instruction. These meetings were audiotaped and transcribed.

Rethinking Content-Area Literacy

I sought to collaborate with Paul, Amy, and Dan in order to study contentarea

literacy and to discover ways in which my collaborators and I could better

support content-area literacy instruction on campus. These collaborations

allowed me to confront content-area literacy theories and instructional practices

from the perspectives held by Paul, Amy, and Dan — perspectives outside

of content-area literacy — and ultimately caused me to rethink my own position

as a content-area literacy teacher educator. This reevaluation has been

69

Redefining Content-Area Literacy Teacher Education

roni jo draper

made possible by reviewing my own descriptions of content-area literacy found

in my past writings, along with the instructional materials I have used with

preservice and in-service teachers. I have also returned to the data (i.e., field

notes, transcriptions of meetings and classes, and interviews) that I collected

with my collaborators to examine my shift in thinking about content-area literacy,

and, thus, my role as a content-area literacy teacher educator. Finally,

each of them read drafts of this article and offered clarifications to ensure that

I have accurately described our work together.

First, I reexamined the data to locate incidents in which I had to rethink

content-area literacy theories and instructional practices. These incidents

often were marked by my own memos or questions within the field notes that

acknowledged the limitations of my views. For example, in field notes that I

created during Paul’s teaching, I included the following question to myself:

“How would you do this without a music background?” This question and others

like it mark an acknowledgment of my own limited views. The conversations

I had with Paul, Amy, and Dan, particularly those in which I asked them

to explain why they had engaged in a particular practice in their classrooms,

made it clear to me that they had thoughtful, disciplined reasons for making

the instructional decisions that guided their work with preservice teachers —

reasons that were rarely part of my consideration as a content-area literacy

teacher educator.

In the end, it was the content-area expertise that each of my collaborators

brought to our work that forced me to reflect on my own thinking and practices.

Paul as a music educator, Amy as a theater educator, and Dan as a mathematics

educator came to the collaboration with a clear sense of the aims of

their disciplines and, thus, the practices that should be implemented in classrooms

to reach those aims with children and youth in public schools. Moreover,

each of them, while open to my ideas about content-area literacy, had the

wherewithal to challenge my views, particularly those related to instructional

practices. As we worked together, each of them was firm without being resistant,

gentle without being condescending. In fact, all of them would likely say

that they did not offer critique. However, their knowledge, practice, and questions

offered me a way to critically reconsider my own position, understanding,

and practice. Specifically, this has required me to question the aims of

content-area literacy instruction and the efficacy of content-area instructional

practices to the extent that they are generic across all disciplines.

Content-Area Literacy Education Must Allow Broad Definitions

of Text

Perhaps because I am a former mathematics teacher, I have long embraced

broad notions of text and, thus, literacy. For example, very early in my thinking

about literacy, I included equations, solutions to equations, and proofs

among the texts that must be read and written in a mathematics classroom

70

Harvard Educational Review

(Draper, 2002b). Therefore, in my writing I have advocated a broad notion of

text. Citing Neilsen (1998), I stated that texts “include anything that provides

readers, writers, listeners, speakers, and thinkers with the potential to create

meaning through language” (p. 523). However, in reading this definition

now, I find myself less comfortable with my reliance on language. Indeed, my

definition of text was broad enough to include objects that one might read,

write, hear, or speak. But my focus on language is highly problematic for

fields such as music and theater that rely on other forms of meaning in addition

to language. Paul helped me see this when he explained to his class that

music offers a way to access “the inner life . . . and stuff you can’t talk about

very well.” He valued music, and other forms of art, because, as he explained

to his class of future music teachers, it “pierces the under layers of consciousness”

that are often inaccessible to language (personal communication, October

9, 2006).

Certainly, broad notions of text have been embraced by members of the

literacy community. For example, Wade and Moje (2000) have defined texts

as “organized networks that people generate or use to make meaning either

for themselves or for others” (p. 610). In this definition, texts need not be

print, they need not be permanent, and they need not focus solely on language.

Similarly, Conley’s (2008) most recent content-area literacy methods

textbook contains a list of texts that include “Internet Web pages, trade books,

music, movies and other media, magazines, and newspapers” (p. 125). Indeed,

several of these texts — music, movies, and even Web pages — rely on print

and nonprint objects that are not solely language based (New London Group,

2000). However, not all content-area literacy methods textbooks acknowledge

this range (e.g., Vacca & Vacca, 2008), and even those that do frequently drop

the point as soon as it is made and use only traditional forms of print- and language-

based text as part of descriptions of text, literacy, and literacy instructional

practices. Instead, their descriptions and examples remain centered

around traditional print texts (e.g., Conley, 2008; Readence, Bean, & Baldwin,

2004). This “privileging” of print- and language-based texts and literacies may

be problematic, particularly in a time when literacy educators are calling for

teachers to engage students with multiple forms of representation and expression

(Kist, 2001; New London Group, 2000).

Broad notions of text have consequences for literacy. Embracing these broad

notions necessitates an expanded definition of literacy, moving away from simply

reading and writing print material and including a wide variety of activities

— viewing, designing, listening, producing, performing, critiquing, evaluating,

and improvising — with a variety of texts. However, literacy educators

have not agreed on a singular definition of literacy (Harris & Hodges, 1995),

and literacy educators consider the multiplicity of definitions of literacy simply

inevitable (Harris & Hodges, 1995). Nevertheless, literacy educators must get

straight what they mean by literacy in order to be useful to educators who have

little background in, and may find limited use for, literacy education.

71

Redefining Content-Area Literacy Teacher Education

roni jo draper

Gee’s (1989, 1996) notion of Discourse, and, thus, literacy may prove useful

in thinking about text use and participation in content-area classrooms. Briefly,

Gee (1996) defines Discourses as “ways of being in the world, or forms of life

which integrate words, acts, values, beliefs, attitudes, and social identities, as

well as gestures, glances, body positions, and clothes” (p. 127). As such, he

explains that a Discourse is a “sort of identity kit” (p. 127) — a way of belonging

and being recognized as belonging to a particular group. Gee’s notion

can be useful for content-area teachers who may be striving to help students

take on new identities or to think and act like musicians, actors, directors, or

mathematicians. As such, content-area classrooms can be seen as helping students

master or control a particular Discourse by helping students learn how

to appropriately act and interact with the texts used to communicate and participate

within disciplinary communities of practice (Wenger, 1998, p. 127).

Indeed, Gee (1989) defines literacy as “control of secondary uses of language”

(p. 23) or “mastery of a secondary Discourse” (1996, p. 143), where

secondary Discourses are those that are acquired and learned in addition to

the primary Discourse made available by one’s family. Ignoring for a moment

Gee’s inclusion of language in his definition, this definition can be useful for

thinking about learning and participation in content-area classrooms. In fact,

this notion of mastering or successfully appropriating an identity that renders

oneself recognizable as a member of a group (e.g., musicians, actors, directors,

mathematicians) requires literacy educators to consider how the community

of practice itself determines the appropriate texts and the appropriate

uses of those texts — not literacy educators who may not be members of that

particular community of practice and, thus, not members of that particular

Discourse community.

Consider the following two incidents that occurred between my collaborators

and me. These incidents illustrate the nature of the experiences that have

prompted me to reconsider content-area literacy instruction as they have illuminated

the limitations in my thinking. I saw how my lack of facility with the

specific texts (both print and nonprint) in use and my lack of understanding

of the discipline (or the community of practice or Discourse community) limited

the guidance I might be able to offer content-area teachers about how to

support the literacies of their students.

Non-Print Literacies

The first incident occurred between Paul and me. I had been discussing invisible

forms of literacy instruction (Vacca, 2002) as a part of our biweekly CALSG

discussions of literacy. Invisible forms of instruction are considered implicit as

opposed to visible forms of instruction, which are considered explicit (see also

Krashen & Terrell, 1983). As such, invisible forms of literacy instruction allow

students to participate with texts in authentic ways and develop literacy skills

through that participation. As part of our discussion, I offered the following

music example:

72

Harvard Educational Review

[The teacher] can say, “We’re about to listen to a piece of music that’s similar

to the piece that you’ve been practicing. I want you to think about some of the

challenges you’ve had trying to perform that.” Then the teacher would play the

music. And then the teacher would stop and say, “Okay, take a moment and

reflect on what you were feeling and thinking. What kinds of things were happening

for you?” So then, in that moment, the teacher would be doing invisible

[instruction]. The teacher would be forcing the kids to recall what they did last

week . . . and then having them reflect on [the music] afterward. (Meeting transcript,

September 28, 2006)

In this example, the teacher prompts students to set a purpose for their

reading and to reflect while reading (skills associated with competent readers),

allowing the students to experience skilled reading without explicit

instruction. I then described various instructional activities that allow teachers

to promote invisible literacy instruction, including anticipation guides.2 My

hope was that the content-area teacher educators around the table, including

Paul, would be able to hear my descriptions of the instructional activities and

modify them to fit their content areas. I had been describing an anticipation

guide and had an example available to share with the group:

The idea behind a lot of these classroom strategies . . . is not to teach kids explicitly

how to do the reading, but to provide opportunities for kids to practice the

behaviors of competent readers with the idea that if they do that enough, then

they will start acquiring those practices for themselves and bring [them] to the

[other] texts that they read (Vacca, 2002). (Meeting transcript, September 28,

2006)

Paul’s response gave me pause. He simply said, “I’m going to have to really

think about how this would look” (personal communication, September 28,

2006).

A couple of weeks later, during my observation of Paul’s class, I watched

him get his class of preservice teachers to create music texts (original adaptations

and performances of a song) as a form of invisible literacy instruction.

Paul had stressed to students that a musically literate individual can do more

than simply perform music according to the directions of the conductor (in

middle and high schools, this is generally the music teacher). His goal was to

model for the preservice teachers how to support their future students’ ability

to create music texts.

First he broke the class into five groups of about seven students each and

explained, “You have three minutes to accomplish the following: You are going

to create a version of ‘Twinkle, Twinkle, Little Star.’ . . . You have to make it

through all the words at least once, and you must have a tonal center” (Field

notes, October 18, 2006). He then gave each group a word that they had to

use to guide the sound of their song: urgent, exuberant, forlorn, relaxed, and exasperated.

His final instructions indicated that while he did not want the class to

completely abandon the melody, they were “free to depart from it.”

73

Redefining Content-Area Literacy Teacher Education

roni jo draper

Students quickly formed their groups. The group that I was observing

closely was talking, humming, and singing. One student said, “Yeah, that could

be our bass line.” Later one student critiquing another said, “That is not exuberant.”

After a few minutes, each group performed for the class. The music

they created was incredible; I had never had so much fun listening to “Twinkle,

Twinkle, Little Star.”

In my notes that day I wrote to myself, “How would you do this without a

music background?” I recalled my suggestion to Paul regarding invisible literacy

instruction in a music classroom. Watching his classroom, I was glad

that he had not taken my suggestion and used it in his class; I was particularly

pleased that Paul did not try to adapt an anticipation guide for his classroom.

What Paul did in supporting his class in creating music texts was far better

than what I had suggested, or would have ever suggested. Paul focused on the

production of text, where I had only focused on the consumption of text. Paul

ended the session with the music teaching majors by asking them what literacies

were necessary for middle and high school students to participate in this

activity. They also brainstormed additional activities that would allow adolescents

to create their own music texts.

I came to realize through my collaboration with Paul that although I can

embrace broad definitions of texts and literacies, I remain limited in the

sound pedagogical recommendations I am able to make for helping students

learn to read and write those texts in discipline-appropriate ways. In fact, when

content-area teacher educators adopt a multiliteracies framework (New London

Group, 2000), they likely remain less able than their content-area education

colleagues to prepare teachers to support those various literacies. While I

can intellectually appreciate that there are a variety of literacies involved with

various disciplines, I do not have enough experience with the particular texts

to know the specific literacies and how to support the acquisition of those

literacies.

Print Literacies

The lesson I learned with Paul — to avoid making instructional suggestions

about texts you know little or nothing about — was reinforced by Amy. In

this case the text was a script — traditional print. I had not made suggestions

about how to teach theater texts. However, Amy had been present during our

discussion of visible and invisible literacy instruction, and about a month later

I observed her teaching her preservice theater teachers about the idea of visible

and invisible literacy instruction.

Amy began the lesson by explaining to her preservice theater teachers that

she was going to model invisible literacy instruction. She then said to the class,

“I want you to observe Kami making a peanut butter and jelly sandwich.”3 She

then turned to Kami: “Pretend you are making it for the man you love.”

Kami quipped, “That will take a lot of imagination!”

To which Amy replied, “Imagination is the key to acting.”

74

Harvard Educational Review

Kami stepped behind a table that was set up in the acting space. The rest

of the class, serving as an audience, remained seated in desks arranged in a

semicircle. Kami placed a paper towel on the table and put peanut butter on

one piece of bread, using the other piece of bread to wipe her knife clean.

She then spread the jelly on the bread that already had the peanut butter

and again used the other slice of bread to clean her knife. She completed her

sandwich and cut it diagonally. Finally, she cleaned up by replacing the lids on

the jars and closing the bag of bread.

After some applause, Amy said to the class, “Let’s articulate some of the

things we observed.”

Trish began, “She cleaned her knife on the other side of the bread.”

Interrupting, Kami explained, “So you don’t get peanut butter on the

sponge.”

Pam, returning to her observation, pointed out, “She was careful about mixing

the peanut butter and jelly.”

Amy accepted these and other observations and then introduced another

scene. “Doug, put on your actor hat and here is a scenario. You are working

graveyard shift at your construction job and you have to be there in five minutes,

but you aren’t going to have a break, so your goal is to make this peanut

butter sandwich.”

Doug stepped behind the table and quickly got to work making his sandwich.

He grabbed two slices of bread and spread peanut butter on both slices,

wiping the knife clean. He then poured the jelly on each slice. Doug finished

by folding each slice of bread in half to make two small sandwiches.

Doug took his bow, and Amy asked the class, “How did that goal change

what happened in the scene?”

Kami said, “He didn’t clean up.”

Trish added, “He poured the jelly.”

Amy repeated the scene again with Trish and Pam. For this scene, Trish was

late for work and had to make a peanut butter sandwich for her little sister,

Pam. Amy added, “Pam is an obstacle because she hates peanut butter and

jelly sandwiches.”

Once the students finished the scene, Amy explained that actors use tactics

to meet objectives. She defined objectives and tactics and explained that “we

don’t want to create a dead-end tactic.” She then asked two more students,

Doug and Kami, to act out a final peanut butter and jelly scene. “This time,”

Amy explained, “Doug wants to go out to eat, but Kami just wants to make

a peanut butter sandwich.” The other students were instructed to “look for

objectives and tactics.”

Shortly after Doug and Kami began, Amy froze the scene and the class discussed

what objectives and tactics they saw occurring. Amy then said, “Pam,

recommend a tactic.” Pam suggested, “Flirt.” The scene continued with Doug

flirting with Kami to get her to drop the knife and go out to eat.

75

Redefining Content-Area Literacy Teacher Education

roni jo draper

Amy called the class back together. She pointed out that she had modeled

invisible literacy instruction, which would prepare students for locating objectives

and tactics while reading a play script — an important theater literacy. At

this moment in Amy’s instruction, I realized fully that if I were given the script

and then asked to make recommendations about how to provide instruction

that would support adolescents’ reading of the script, I would not suggest ideas

for helping students locate objectives and tactics. As I expressed in my memo

in the field notes, “The purpose of the reading is influenced by understanding

the discipline. I would not know to [look] for objectives and/or tactics.”

While I would have likely helped students establish a purpose for reading, I

would not have known to tell students that one purpose an actor might have

for reading a script is to locate the objectives and tactics. In this case, it was

not my inability to decode and comprehend print text — as was the case with

the texts I encountered in Paul’s classroom — that would interfere with my

instructional practices; it was my lack of understanding of theater Discourses

that would cause me to miss important opportunities to help my students read

a script like an actor.

Content-Area Literacy Instruction Must Focus on Gaining Facility

with Content-Appropriate Texts

Because of my background in mathematics and my experience as a mathematics

teacher, I have felt confident in my ability to make suggestions about instructional

practices in mathematics classrooms. Indeed, I am aware of and conversant

with many mathematical texts, particularly those used in middle and high

school classrooms. I have read all of the standards documents (several more

than once); I have read closely mathematics methods textbooks, three of them

for my dissertation study (see Draper, 2000, 2002a); I have read literature written

by mathematics teacher educators about instruction for mathematics classrooms.

However, because I have not always articulated content-area literacy as

a goal for content learning, I have been guilty of suggesting the use of print

texts that have distracted from the aims of mathematics instruction.

For example, I, like other content-area literacy teacher educators, have suggested

that mathematics teachers use writing to support student learning in

mathematics classrooms — an example of literacy as a tool. In particular, I

have suggested that they use learning logs as a way to assess student learning

and to create a dialogue between teachers and students, and as a way for

students to articulate their thinking about mathematics (McIntosh & Draper,

1997a, 1997b, 2001). While I still support writing in mathematics classrooms,

I have come to understand that in order to do the most good, I must support

the writing of particular kinds of mathematics texts.

Dan has often expressed this point to me, and the following incident helped

me to begin to see it. As a regular part of Dan’s mathematics course for pre 76

Harvard Educational Review

service teachers, he required them to write explanations of the mathematical

phenomena and operations they were learning in class. Furthermore, he

expected them to create particular concept-oriented explanations. About one

month into the mathematics course I was observing, Dan explained to the

class that “after reading the exam, some of you are getting really good at making

explanations, but I thought some of you need more information on how

to write a good explanation” (personal communication, February 7, 2001).

Then Dan displayed an overhead transparency titled “Characteristics of a good

explanation.” He clarified the points he included on the transparency. The

main points of his presentation were as follows:

• Good explanations are based on images or models rather than symbols.

• Every number is carefully linked to some quantity or relationship between

quantities in the image or model.

• Every operation is described in terms of actions performed on the image

or model.

Dan also discussed the questions the students should ask themselves while

creating an explanation. He pointed out, “Now notice that these questions

don’t focus on ‘How did I get the answer?’” Rather, the questions focused

on justifying why each step works and what it means. Dan ended the discussion

by contrasting the characteristics of good explanations with those of poor

explanations.

After this discussion, Dan divided the class into pairs to read each other’s

papers and give feedback about the explanations. He wrote the directions on

the board:

1. Everyone read [an addition] and [subtraction] explanation from the

homework for everyone in the group.

2. [Discuss] good things (name two and be specific).

3. Restate their ideas.

4. Give suggestions (be kind and be honest).

Many literacy educators will notice, as I did, that Dan engaged his students

in writing instruction focused on the writing process — drafting, editing, and

revising. He also had his students participate in peer editing. Clearly, his goal

for this lesson was that his students gain facility in creating a mathematical

explanation. Literacy was the goal. However, it was a particular literacy in that

he remained focused on creating a particular kind of mathematics text. He

was not satisfied that his students were simply writing; he also insisted that they

write explanations that articulated accurate representations of the mathematics

by requiring them to base their explanations on images of quantities and

operations. Furthermore, Dan insisted that the explanations fit the conventions

of mathematical writing — in this case, mathematical proof. Dan was not

satisfied when his students’ explanations simply described the algorithm they

used to compute the correct answer.

77

Redefining Content-Area Literacy Teacher Education

roni jo draper

When I review the work I have done in writing in mathematics, it is clear

that I have been satisfied with mere descriptions of algorithms. For example,

I have suggested learning log prompts such as, “Explain in words how to solve

the problem” (McIntosh & Draper, 2001, p. 556). In the discussion that accompanied

the prompt and the student example of writing (which was taken from

my mathematics classroom), my coauthor and I pointed out that it was unclear

“whether [the student] completely understands why she is doing each step”

(p. 556). However, the prompt I provided did not require her to make clear

why each step works. Thus, I missed an opportunity to focus on understanding

mathematics (not to mention the issue of my privileging print literacy). Moreover,

descriptions of algorithms do not represent mathematical Discourse any

more than they characterize poetry writing or other similar literary genres,

and, thus, they should be deemphasized in mathematics classrooms.

Trite slogans like “writing across the curriculum” do little to make clear that

content-area teachers should focus on helping their students acquire and learn

content-area literacies or master content-area Discourses. Furthermore, the

slogans may send the message that reading or writing, regardless of the text,

should be celebrated in every content-area classroom. Dan has made it clear to

me on several occasions that he is not in favor of using precious instructional

time to help students write poems, raps, or other kinds of texts that do not

resemble the kinds of texts used to participate or communicate mathematically.

Instead, mathematics instruction must help students become fluent in

the texts consistent with mathematical Discourse and the aims of mathematics

education. Similarly, writing that does not focus on making sense of the mathematics

or merely requires students to put words to their algorithms should

not be recommended for mathematics classrooms just so mathematics teachers

can fulfill the “writing-to-learn” mandate.

Lessons Learned through Content-Area Educator Collaboration

Content-area literacy has not been universally embraced by content-area teachers.

However, my collaborations with Paul, Amy, and Dan have helped me see

that perhaps content-area literacy in a very general or generic sense is not useful

for content-area classrooms. Our study had shown me that content-area literacy

is more valuable to content-area teachers when it makes space for nonprint/

non-language-based texts, and when teachers use print texts in discipline-appropriate

ways. The focus should be on helping students gain facility with the

texts already present and valued in content-area classrooms. Content-area literacy

educators may say that this is precisely the message sent to content-area

teachers. However, a close examination of the messages surrounding contentarea

literacy does not bear this out (Siebert & Draper, in press). For example,

when literacy instructional activities are described specifically for mathematics

classrooms, they generally advocate a kind of mathematics instruction that is

deemphasized by mathematics reformers, such as memorizing algorithms.

78

Harvard Educational Review

Paul, Amy, and Dan have found value in considering the issues related to

content-area literacy. However, they have done so while maintaining a clear

vision of the aims of content instruction. For Paul, a focus on print texts is not

compelling for the goals he is trying to accomplish in music education. Amy,

on the other hand, knows that print texts are important for theater education.

However, the literacies that accompany those texts are quite specific. And for

Dan, content-area literacy that does not help him consider ways to help his students

access a rich understanding of important mathematical concepts is useless.

These subtleties may seem insignificant. However, they must be addressed

if content-area literacy theories and instructional practices are going to realize

their full potential to help students — regardless of class, culture, or linguistic

background — access the knowledge and acquire the skills necessary to

participate in various Discourse communities. Paul, Amy, and Dan have each

tapped into the theories and practices related to content-area literacy as evidenced

by the way in which they have incorporated content-area literacy ideas

into the classes they teach to preservice teachers. I have also felt validated by

my content-area teacher educator colleagues in that they have found my literacy

ideas worthy of their consideration and valuable in their work with preservice

teachers.

Conclusions

For my dissertation study, I conducted a qualitative content analysis of methods

books written to prepare teachers to teach mathematics, science, and

social studies (Draper, 2000, 2002a). I expressed hope that these types of “conversations

across disciplines” would help “literacy educators . . . understand

recent research, recommendations, and implications of content teaching and

learning,” and that “content-area educators . . . [might] consider doing some

deep thinking and learning about adolescent literacy issues” (Draper, 2000,

pp. 195–196). I believed that part of the reason content-area teachers resisted

ideas about literacy and literacy instruction was that they could not see how

the ideas fit with what they were learning about content instruction from their

methods textbooks and professors. I conceptualized the problem then as one

of coherence, or lack thereof. My hope in collaboration was that content-area

teacher educators and literacy educators would adopt each other’s language

to some degree and then present their disparate ideas in a way that would

allow preservice teachers to make the appropriate connections.

My thought was that content-area teacher educators were unwittingly

undermining the work of literacy teacher educators, and that if they would

just make some minor adjustments (e.g., not using writing as a punishment

for students who disrupt the classroom), then preservice teachers would have

a better chance of understanding how to infuse their content instruction with

relevant literacy instruction. It did not occur to me then, as it does now, that

literacy teacher educators may be unwittingly undermining the work of con 79

Redefining Content-Area Literacy Teacher Education

roni jo draper

tent-area teacher educators. Experiences with Paul, Amy, and Dan remind me

that I have the potential to do harm to content instruction by making recommendations

that distract from or distort the content. I have come to realize

that because I am not a member of any of the particular Discourse communities

that occur in school, I am not familiar with the texts or how those texts

are used.

Ultimately, my experiences with Paul, Amy, and Dan have forced me to

reconsider my purpose as a content-area literacy teacher educator. While I

initially sought to create these collaborations because I believed in literacy

and did not have the opportunity to teach a separate literacy course, I have

come to appreciate our work together as my contribution to the preparation

of secondary teachers on campus. I continue to believe that all teachers must

be prepared to support the literacy development of their students, yet I am no

longer convinced that all preservice teachers need to take a separate literacy

course. Indeed, I cannot imagine that I could do a better job of preparing

teachers to support adolescents’ music literacies than Paul. I am likewise convinced

that for theater, which relies to a large extent on print literacies, Amy

is in a much better position to equip future theater teachers with the necessary

techniques to engage their students in reading and writing those texts. In

fact, Amy is in a much better position to describe to preservice theater teachers

how the multiple texts (e.g., script, body language, costume and set design,

music, theater production) relate to one another and how to help adolescents

learn how this multiplicity of texts works together (and thus must be read

and written together) in theater settings. I have appreciated the opportunity

to collaborate on the content and methods of several content-area methods

courses, and my role as a consultant on these courses works well for me and

my colleagues.

Paul, Amy, and Dan have benefited from our collaborations as well. Each of

them has gained ideas and ways of talking about content instruction that they

can share with future teachers. They each discuss “literacy as a lens” for viewing

content instruction and instructional problems within content-area classrooms.

Paul and Amy have sought my guidance for changes they have made

to their methods courses. They look forward to making a place for contentarea

literacy within their methods courses because they appreciate the power

it gives them to discuss both the aims of content instruction and appropriate

instructional practices. In fact, Paul, Amy, and Dan have also made a place for

literacy in the scholarship aspect of their professional assignments by coauthoring

presentations and publications on the topic.

Changing the location of my practice from teacher education to teacher

educator education presents challenges for me and for my institution. The

primary challenge that must be addressed is getting widespread participation

in the study of literacy from teacher educators who prepare secondary teachers.

Indeed, given the traditions of teacher education and the fact that content-

area teacher educators are likely not seeking out ways to add to their

80

Harvard Educational Review

curricula for preservice teachers, how might content-area teacher educators

welcome collaborations with the content-area literacy teacher educators and

consider it worthy of their time and energy? What considerations must be

taken to ensure true collaboration rather than simply cooperation or instrumental

action, where one collaborator seeks to impose his or her views on the

other participants? How does the institution “count” the work of the contentarea

literacy teacher educator when his or her work does not fit into conventional

full-time equivalence allocations? Moreover, what do these collaborative

efforts look like at institutions that do offer a separate content-area literacy

methods course?

Perhaps the CALSG offers a model for teacher educators to consider. Under

this model, I have a one-course load reduction each semester that enables

me to work with content-area teacher educators from all over campus. I facilitate

our meetings by locating places to meet, establishing a schedule, and

choosing reading material for us to discuss. In order to encourage contentarea

teacher educators to participate, particularly those who have scholarship

responsibilities, I suggested that the group engage in a form of participatory

action research (Kremmis & McTaggart, 2000; Reason, 1999). Therefore, from

the first meeting of the CALSG we have been engaged in inquiry — audiotaping

meetings; collecting artifacts such as course syllabi, descriptions of

assignments, meeting agendas, and notes; and observing instruction. I have

facilitated the inquiry by visiting courses, creating field notes of the instruction,

and having one-on-one conversations with professors about the content

of their courses. Our inquiry has led to several national and international

research presentations and to the preparation of manuscripts for publication.

We are currently working on a book proposal together.

I have also strived to build our collaboration in the CALSG on the precepts

of democratic participation, which are consistent with collaborative forms

of research like participatory action research (Draper, Hall, & Smith, 2006).

This form of participation is in line with Dewey’s (1916) description that “a

democracy is more than a form of government; it is primarily a mode of associated

living, a conjoint communicated experience” (p. 87). Dewey (1927) also

explained that when the conjoint activity has consequences that are “appreciated

as good by all” and when the realization of those good consequences is a

desire that all are willing to work toward, a democratic community is formed

(p. 149). Thus, a democratic community is formed when individuals work

together on a common problem to find a solution that is beneficial to all.

As Bernstein (1998) has explained, “the virtues of openness, fallibility, experimentation,

ongoing criticism, and imagination are what Dewey took to be

characteristic virtues of a community of inquirers” (p. 149). These characteristic

virtues, which Dewey maintained are requisite for a democratic community,

are those that we sought to appropriate in our work together in the CALSG.

Our common problem has been the preparation of secondary teachers.

Moreover, we are all concerned about the education of adolescents and want

81

Redefining Content-Area Literacy Teacher Education

roni jo draper

to prepare teachers who can create safe and educative opportunities for adolescents.

As such we have worked together in the CALSG to build trust with

one another by listening to each other’s concerns and expertise; we have been

open to alternative opinions; individuals have made changes to their practice

and reported those changes to the group; and individuals have continued to

focus on changing their own work and not the work of others. This has been

particularly challenging for me. I have had to remain patient and open to

allowing each participant to make his or her own sense of the ideas and to

implement the ideas in his or her own way. However, I believe it is my commitment

to the process — rather than the product — that allows the group to

work so well together. In fact, this year (our third year) we welcomed five new

members to the group.

We will continue to work to overcome the challenges associated with collaboration

and teacher education. These challenges and others must be addressed

in order to make the collaborative efforts between teacher educators effective.

Indeed, both content-area and literacy teacher educators must not abandon

the possibility of collaborative work simply because the challenges loom large.

Instead, we must gather up our courage and humility and seek ways to overcome

those challenges if we hope to transform the preparation of middle and

high school teachers and, thus, the lives of the adolescents with whom they

will eventually work.

Notes

1. The enacted curricula, as described by Eisner (1979), are the curricula as implemented

by a teacher during the practice of teaching. This is in contrast to the curricula

described in textbooks or curricular outlines, or as represented in unit and lesson

plans created by the teacher.

2. Anticipation guides consist of four to five true/false questions based on a passage students

are going to read. Students answer the questions prior to reading the passage

and discuss their answers with their peers. Students then read the passage with the

express goal of verifying or refuting their answers. After reading, students discuss any

changes that they must make to their answers. Anticipation guides require students to

reflect on their background knowledge and read with a purpose.

3. All student names are pseudonyms.

References

Bernstein, R. J. (1998). Community in the pragmatic tradition. In M. Dickstein (Ed.), The

revival of pragmatism: New essays on social thought, law, and culture (pp. 141–156). London:

Duke.

Bullough, R. V., Jr., & Pinnegar, S. (2001). Guidelines for quality in autobiographical forms

of self-study research. Educational Researcher, 30(3), 13–21.

Conley, M. (2008). Content area literacy: Learners in context. Boston: Pearson.

Dewey, J. (1916). Democracy and education: An introduction to the philosophy of education. New

York: Free Press.

Dewey, J. (1927). The public and its problems. Athens, OH: Swallow Press.

82

Harvard Educational Review

Draper, R. J. (2000). How secondary preservice mathematics, science, and social studies methods textbooks

support content-area literacy instruction: A qualitative content analysis. Unpublished

dissertation, University of Nevada, Reno.

Draper, R. J. (2002a). Every teacher a literacy teacher? An examination of the literacy-related

messages in secondary methods textbooks. Journal of Literacy Research, 34, 357–

384.

Draper, R. J. (2002b). School mathematics reform, constructivism, and literacy: A case for

literacy instruction in the reform-oriented math classroom. Journal of Adolescent and

Adult Literacy, 45, 520–529.

Draper, R. J., Hall, K. M., & Smith, L. K. (2006). The possibility of democratic educational

research to nurture democratic educators. Action in Teacher Education, 28(2), 66–72.

Draper, R. J., & Siebert, D. (2004). Different goals, similar practices: Making sense of the

mathematics and literacy instruction in a standards-based mathematics classroom.

American Educational Research Journal, 41, 927–962.

Eisner, E. W. (1979). The educational imagination: On the design and evaluation of school programs.

New York: Macmillan.

Feldman, A. (2003). Validity and quality in self-study. Educational Researcher, 32(3), 26–28.

Fisher, D., & Ivey, G. (2005). Literacy and language as learning in content-area classes:

A departure from “every teacher a teacher of reading.” Action in Teacher Education,

277(2), 3–11.

Gee, J. P. (1989). What is literacy? Journal of Education, 171(1), 18–25.

Gee, J. P. (1996). Social linguistics and literacies: Ideology in discourses (2nd ed.). London: RoutledgeFalmer.

Gray, W. S. (1925). A modern program of reading instruction for the grades and high

school. In G. M. Whipple (Ed.), Report of the National Committee on Reading: 24th yearbook

of the National Society for the Study of Education, part 1 (pp. 21–73). Bloomington,

IL: Public School Publishing.

Harris, T. L., & Hodges, R. E. (Eds.). (1995). The literacy dictionary: The vocabulary of reading

and writing. Newark, DE: International Reading Association.

Kist, W. (2001). Beginning to create the new literacy classroom: What does the new literacy

look like? In J. A. Rycik & J. L. Irvin (Eds.), What adolescents deserve: A commitment to students’

literacy learning (pp. 226–240). Newark, DE: International Reading Association.

Krashen, S. D., & Terrell, T. D. (1983). The natural approach: Language acquisition in the classroom.

Oxford: Pergamon.

Kremmis, S., & McTaggart, R. (2000). Participatory action research. In N. K. Denzin & Y.

S. Lincoln (Eds.), Handbook of qualitative research (2nd ed., pp. 567–606). Thousand

Oaks, CA: Sage.

Loughran, J. (2007). Researching teacher education practices: Responding to the challenges,

demands, and expectations of self-study. Journal of Teacher Education, 58(1),

12–20.

Manzo, A. V., Manzo, U. C., & Estes, T. H. (2001). Content area literacy: Interactive teaching for

active learning (3rd ed.). New York: John Wiley & Sons.

McIntosh, M. E., & Draper, R. J. (1997a). Logging on daily. Writing Teacher, 10(2), 26–29.

McIntosh, M. E., & Draper, R. J. (1997b). Write starts: 101 learning logs for the mathematics

classroom. Palo Alto, CA: Dale Seymour.

McIntosh, M. E., & Draper, R. J. (2001). Using learning logs in mathematics: Writing to

learn. Mathematics Teacher, 94, 554–559.

McKenna, M. C., & Robinson, R. D. (1990). Content literacy: A definition and implications.

Journal of Reading, 34, 184–186.

Moje, E. B., Young, J. P., Readence, J. E., & Moore, D. W. (2000). Reinventing adolescent

literacy for new times: Perennial and millennial issues. Journal of Adolescent and Adult

Literacy, 43, 400–410.

83

Redefining Content-Area Literacy Teacher Education

roni jo draper

National Council of Teachers of Mathematics. (1989). Curriculum and evaluation standards

for school mathematics. Reston, VA: Author.

National Council of Teachers of Mathematics. (2000). Principles and standards for school mathematics.

Reston, VA: Author.

Neilsen, L. (1998). Playing for real: Performative texts and adolescent identities. In D. E.

Alvermann, K. A. Hinchman, D. W. Moore, S. F. Phelps, & D. R. Waff (Eds.), Reconceptualizing

the literacies in adolescents’ lives (pp. 3–26). Mahwah, NJ: Erlbaum.

New London Group. (2000). A pedagogy of multiliteracies: Designing social futures. In

B. Cope & M. Kalantizis (Eds.), Multiliteracies: Literacy learning and the design of social

futures (pp. 3–37). London: Routledge.

O’Brien, D. G., Stewart, R. A., & Moje, E. B. (1995). Why content literacy is difficult to

infuse into the secondary school: Complexities of curriculum, pedagogy, and school

culture. Reading Research Quarterly, 30, 442–463.

Peirce, C. S. (1955). The scientific attitude and fallibilism. In J. Buchler (Ed.), Philosophical

writings of Peirce (pp. 42–59). New York: Dover.

Ratekin, N., Simpson, M. L., Alvermann, D. E., & Dishner, E. K. (1985). Why teachers resist

content reading instruction. Journal of Reading, 28, 432–437.

Readence, J. E., Bean, T. W., & Baldwin, R. S. (2004). Content area literacy: An integrated

approach (8th ed.). Dubuque, IA: Kendall/Hunt.

Reason, P. (1994). Three approaches to participative inquiry. In N. K. Denzin & Y. S. Lincoln

(Eds.), Handbook of qualitative research (pp. 324–339). Thousand Oaks, CA: Sage.

Reason, P. (1999). Integrating action and reflection through co-operative inquiry. Management

Learning, 30, 207–226.

Romine, B. G. C., McKenna, M. C., & Robinson, R. D. (1996). Reading coursework requirements

for middle and high school content area teachers: A U.S. survey. Journal of Adolescent

and Adult Literacy, 40, 194–198.

Siebert, D., & Draper, R. J. (in press). Why content-area literacy messages do not speak to

mathematics teachers: A critical content analysis. Literacy Research and Instruction.

Simpson, E. A. (1954). Helping high-school students read better. Chicago: Science Research

Associates.

Stewart, R. A., & O’Brien, D. G. (1989). Resistance to content area reading: A focus on preservice

teachers. Journal of Reading, 32, 396–401.

Vacca, R. T. (2002). Making a difference in adolescents’ school lives: Visible and invisible

aspects of content area reading. In A. E. Farstrup & S. J. Samuels (Eds.), What research

has to say about reading instruction (3rd ed., pp. 184–204). Newark, DE: International

Reading Association.

Vacca, R. T., & Vacca, J. A. (2005). Content area reading: Literacy and learning across the curriculum

(8th ed.). Boston: Allyn and Bacon.

Vacca, R. T., & Vacca, J. A. (2008). Content area reading: Literacy and learning across the curriculum

(9th ed.). Boston: Allyn and Bacon.

Wade, S. E., & Moje, E. B. (2000). The role of text in classroom learning. In M. L. Kamil, P.

B. Mosenthal, P. D. Pearson, & R. Barr (Eds.), Handbook of reading research: Volume III

(pp. 609–628). Mahwah, NJ: Erlbaum.

Wenger, I. (1998). Communities of practice: Learning, meaning, and identity. Cambridge, England:

Cambridge University Press.

The author would like to express her appreciation to Paul Broomhead, Amy P. Jensen, and

Dan Siebert for their generosity and willingness to teach her.

This article has been reprinted with permission of the Harvard Educational Review (ISSN

0017-8055) for personal use only. Posting on a public website or on a listserv is not allowed.

Any other use, print or electronic, will require written permission from the Review. You may

subscribe to HER at www.harvardeducationalreview.org. HER is published quarterly by the

Harvard Education Publishing Group, 8 Story Street, Cambridge, MA 02138, tel. 617-495-

3432. Copyright © by the President and Fellows of Harvard College. All rights reserved.