Is the Supply in Demand?
Exploring How, When, and Why Teachers Use Research

January 2011
Acknowledgments

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Is the Supply in Demand?
Exploring How, When, and Why Teachers Use Research

Revised Edition
January 2011

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Abstract

This paper explores the demand side of the market for educational research, particularly for teachers’ usage. It focuses on the types of educational research that teachers find useful for advancing their instructional practice and the conditions under which they access the research that is currently available.

Although teachers have mixed opinions—both positive and negative—of research, they are by no means categorically disinclined to using educational research to improve their practice. Instead, teachers are particularly inclined to seek out research when they have an immediate, pressing concern. Their demand is greatest for research provided through the Internet, through trusted colleagues, by credible researchers, and in educational contexts similar to their own. However, teachers’ views of what constitutes “credible” research tend to differ from those of professional researchers. Among their criteria for credibility, teachers include research that is relevant and applicable to their own classroom context.

More generally, perceived gaps between the viewpoints of researchers and practitioners (the teachers themselves) regarding research credibility and usefulness suggest that the content, presentation, and dissemination of educational research may limit teachers’ demand for it. Because teaching is a profession in which time is at a premium, teachers are unlikely to prioritize research that does not take into account their needs and preferences. Ensuring an appropriate match between what teachers want and what researchers supply requires that certain changes occur within the academic, policy, and practitioner communities. Advancing the education community in this way will enable students to benefit from teaching that is both high quality and research based.
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Introduction

“Upon the subject of education, not presuming to dictate any plan or system respecting it, I can only say that I view it as the most important subject which we as a people can be engaged in.”

—Abraham Lincoln, in his Address to the People of Sangamon County (as included in Nicolay & Hay, 1894, p. 8)

The educational research community has been highly engaged for many years on this subject of education, and it is likely that—as with Lincoln—they find it of crucial importance. The volume of literature housed in the Education Resources Information Center (ERIC) database now exceeds one million articles, many written with the intent to improve education. What links the vast community of educational researchers is “a deep concern with the condition of children and schools… [and] research is often evaluated in part in terms of whether it contributes to improving these conditions” (Gardner, 2002, p.72).

However, despite the large volume of educational research, evaluations of such research have sometimes criticized its quality as neither useful nor influential (Burkhardt & Schoenfeld, 2003; Shaver, 1982), or even awful (Kaestle, 1993). Some researchers note that educational researchers may not be adequately prepared to disseminate research to practitioners in ways that are useful (Schoenfeld, 2009). To the extent that educational research falls short of what it might be, the views of suppliers and consumers of research ought to be ascertained to find avenues for improvement.

This exploratory study gauges the views of teachers, as consumers of educational research, in order to further understanding of how the field might develop to be more useful and influential in advancing their instructional practice. Of course, not all educational research is, or should be, intended to improve teachers’ effectiveness. Some research is geared toward policymakers while other research aims to contribute to knowledge for the sake of knowledge. However, given that the improvement of student learning motivates much educational research, it is problematic that very little research has addressed the demand side of the market for educational research, particularly in the United States. According to Porter (2007), this dearth of relevant research leaves questions about whether teachers look for research-based solutions or even view research as a useful source for unanswered questions.

In contrast, researchers at the British Educational Research Association and the European Educational Research Association have addressed this topic more extensively (Beycioğlu & Ozer, 2010; Cordingley, 2000). Detailed research on the topic was conducted by Hemsley-Brown and Sharp (2003). Their cross-national review of research on this topic in multiple English-speaking countries during the period of 1988 to 2001 revealed that there were indeed barriers to teachers’ use of educational research, including lack of access to academic journals, the daunting amount of research, jargon and overly theoretical orientations, and distrust of the findings.

Although the research on this topic in the United States is sparse, some efforts have been made to improve the usefulness of educational research. In particular, the Institute of Education Sciences’
What Works Clearinghouse website (http://ies.ed.gov/ncee/wwc/), established in 2002, aims to provide user-friendly, online access to key findings from high-quality educational research—specifically about teaching and learning topics. In order to reverse the troubled history of educational research (Lagemann, 2002), both its content and dissemination must be examined critically.

This exploratory study begins that critical examination by considering the extent to which the large body of educational research is in fact useful to teachers who are looking to improve their instructional practice and how educational research might be made more appealing to teachers. In other words, is there a demand by teachers for research? If so, what, if anything, can the producers of research at universities and elsewhere do to ensure that what they are supplying meets this demand?

In order to advance an understanding of this issue, researchers at Learning Point Associates1 conducted nine focus groups in late 2008 and early 2009 with a total of 49 teachers from urban and suburban schools within the Chicago metropolitan area. Teachers were asked about:

- Whether they seek out research and why or why not
- What comes to mind when they hear the word “research” in an education context
- What sources of research they rely on and how they judge its credibility
- What barriers prevent them from using educational research
- What type of research is useful, and what would make using research more appealing
- What type of preparation for using research they have received

It is hoped that the findings of this study will lead to a more efficient and effective use of resources that fund educational research and its dissemination by taking into account the practitioner perspective. The goal is to remedy the current state of affairs, described aptly by one study participant who characterized the operation of academics as being in one “bubble,” with teachers in another, “and never the two will meet.”

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1 Learning Point Associates merged with American Institutes for Research in August 2010.
Methods

Data for this exploratory study were collected through nine 1-hour focus groups with teachers across the Chicago metropolitan area. The focus group approach is ideal for exploratory studies such as this one because it allows for multiple perspectives to emerge while also facilitating consensus building regarding key themes and issues. Through the sharing of ideas, focus group participants are encouraged to consider additional angles and perspectives beyond their initial reactions to the guiding questions.

A total of 49 individuals from elementary/middle schools and high schools participated in the focus groups. In order to capture the views and practices of teachers, selection efforts were focused on teachers in relatively successful schools. To be invited to participate in the focus groups, teachers needed to be working at schools where 60 percent or more of the students were meeting or exceeding adequate yearly progress (AYP). The percentage of students in the selected districts meeting or exceeding AYP standards ranged from 60 percent to 88 percent. Both urban and suburban schools were sampled, representing a wide socioeconomic range. Table 1 presents the details of participation.

Table 1. District and School Sample

<table>
<thead>
<tr>
<th>School/District</th>
<th>Number of Teachers</th>
<th>Range in Years of Teaching Experience</th>
<th>Percentage of Students Meeting/Exceeding AYP</th>
<th>Percentage of Low-Income Students</th>
<th>Date of Focus Group</th>
</tr>
</thead>
<tbody>
<tr>
<td>Suburban Elementary School District 1</td>
<td>7</td>
<td>8–27 years of experience</td>
<td>87.6%</td>
<td>13.2%</td>
<td>10/22/08</td>
</tr>
<tr>
<td>Urban Elementary School 1</td>
<td>5</td>
<td>0–1 years of experience</td>
<td>76.8%</td>
<td>93.3%</td>
<td>11/19/08</td>
</tr>
<tr>
<td>Urban Elementary School 2</td>
<td>6</td>
<td>4–6 years of experience</td>
<td>62.2%</td>
<td>97.1%</td>
<td>11/20/08</td>
</tr>
<tr>
<td>Suburban High School</td>
<td>3</td>
<td>25–30 years of experience</td>
<td>87.6%</td>
<td>2.1%</td>
<td>12/11/08</td>
</tr>
<tr>
<td>Urban High School</td>
<td>5</td>
<td>4–7 years of experience</td>
<td>61.6%</td>
<td>43.4%</td>
<td>12/8/08</td>
</tr>
<tr>
<td>Suburban Elementary School District 2</td>
<td>8</td>
<td>3–6 years of experience</td>
<td>59.5%</td>
<td>92.8%</td>
<td>1/12/09</td>
</tr>
<tr>
<td>Suburban Elementary School District 3</td>
<td>6</td>
<td>3–5 years of experience</td>
<td>68.0%</td>
<td>70.0%</td>
<td>12/10/08</td>
</tr>
<tr>
<td>Suburban Elementary School District 4</td>
<td>5</td>
<td>0–15 years of experience</td>
<td>82.9%</td>
<td>26.4%</td>
<td>11/13/08</td>
</tr>
<tr>
<td>Suburban Elementary School District 5</td>
<td>4</td>
<td>3–7 years of experience</td>
<td>62.0%</td>
<td>76.1%</td>
<td>1/6/09</td>
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Three to eight teachers participated in each focus group. Because experience level might affect the extent to which teachers use educational research, every attempt was made to place teachers in groups with participants of similar levels of experience. There was one focus group of new teachers (0–1 year of experience); two focus groups of very experienced teachers (one with teachers having a range of 8–27 years of experience and one with teachers with 25–30 years of experience, including a department chair); one focus group with a large range of experience levels (0–15 years of experience); and five focus groups with early- and midcareer teachers (3–7 years of experience). In total, the study included six teachers with 0–1 year of experience; 32 teachers with 2–7 years of experience; and 11 teachers with 8 or more years of experience.

The focus group sessions took place at schools and district offices between October 12, 2008, and January 12, 2009, before or after school and, in one case, at lunchtime.

A small incentive was offered to all participants. In addition to providing food and beverage during each focus group session, each participant received a $10 Amazon gift card, followed by a raffle for an additional $25 Amazon gift card. In some cases, district or school coordinators made teachers aware of these incentives ahead of time; in other cases, they did not.

Teachers were selected in a variety of ways. In cases in which only a small number of teachers were eligible (e.g., the school was small with only a few teachers in a given experience band), district or school officials invited the eligible teachers. In cases in which there were many eligible teachers, an e-mail message soliciting participation was sent to all teachers in the specified experience level range.

At the start of each focus group session, participants were informed of the study’s purpose and procedures and of their rights as participants. Participants provided verbal consent to be audi-taped. Both a facilitator and note taker were present during each focus group session. The audio-recordings were transcribed, and the recorder’s notes reviewed where gaps in the transcription existed. In addition, a common definition of educational research was established. This definition excluded action research, which teachers conduct themselves, and their students’ standardized test results. Instead, participants focused more on the type of research that is conducted by researchers at universities.

Data were analyzed inductively, allowing findings to emerge from frequent or dominant themes and subthemes in the data. Transcripts were coded using an iterative process that involved identifying and re-identifying emerging themes until agreement between two researchers was reached. Responses then were coded and grouped by theme. All data related to a particular theme or subtheme were read and reread in order to fully capture the essence of the discussion. Responses also were linked to participants’ school or district, experience level, and grade levels taught. This approach allowed differences between subgroups to be explored. However, the focus group findings should not be interpreted as representative of all teachers or of all teachers within a given subgroup but rather as a useful starting place for future studies.
Findings

Based on data gathered from the focus groups, several key findings emerged about the ways that teachers use educational research, the types of research that teachers find most useful, and some of the barriers that prevent teachers from accessing and using research.

Overall, there is some demand for educational research by teachers. By and large, teachers use educational research, but their usage is most often in response to very specific classroom concerns and only after other more efficient resources have been tapped. However, due to content, presentation, and forms of dissemination, much of the available research is not as useful to teachers as it could be. With specific changes to the way that research is presented, it could be both in greater demand and of greater use to improving teachers’ practice.

General Findings

Finding 1: Although teachers are not opposed to accessing and using research, research in general evokes a number of strong yet conflicting responses among teachers.

The tension between using educational research to support instruction and the perceived gap between researchers’ and practitioners’ views of credible or useful research emerged as a common theme in all nine focus groups, regardless of teachers’ years of experience, grade level taught, or school location in the greater Chicago area.

Teachers who held positive reactions to research viewed it as information about what works in the classroom. For example, some teachers indicated that research findings are a way to validate that educational practices are “tried and true” and have “proven to be successful.” Research findings, then, can provide an extra level of assurance that teachers are implementing strategies and practices that work. One focus group participant illustrated confidence in research in the following way:

When something’s researched-based, it just makes me feel like someone actually took the time to see the successes or the failures or improvements with other students and in other districts. So, it’s been proven either to work or not to work, versus someone saying, “Well, why don’t you just try this.”

However, not all teachers view educational research in a positive light. Many focus group participants suggested that research can seem removed from everyday classroom realities. This sentiment was reinforced when teachers believed that the research environment is not an accurate representation of actual classrooms or of classrooms with similar student compositions to theirs. As one high school teacher explained:

A lot of times, research is done by people who don’t spend time in classrooms and who don’t know students. It only takes you so far. Then, you feel like, “I’m living in it. I have a better sense of what students need and what works with students than someone who is just looking at a bunch of numbers on a piece of paper.”
Finding 2: Although there was a wide degree of skepticism about researchers and research findings per se, this skepticism can be reduced if research comes from a source that teachers trust and if the findings work their classroom.

Teachers use different criteria than researchers to determine whether research is credible or useful. For teachers, credible research is that which is conducted on a population that is similar to their class and has direct classroom application. In other words, credibility is based on applicability and usability. In contrast, researchers tend to determine the extent to which research is sound by assessing whether the methods employed yielded results that were valid and reliable given the population studied and the research questions being addressed. As a result of their differing perspectives, teachers and researchers may view research outcomes and findings in very different ways.

In general, focus group participants were more likely to trust research findings that came from a source they deemed credible—such as a colleague, administrator, professor of theirs, or researcher with experience in the classroom. However, if the research is associated with promoting an educational product, the teacher may disregard the findings. Teachers also are more likely to trust their own experiences and feedback they receive from their students than suggestions made by a researcher. In the end, teachers have to do what seems to work in the classroom, regardless of official best practices or other research guidance. For some teachers, a strategy that works with their students provides more evidence of success than what research might argue is effective. In addition, teachers may be more likely to buy into research that confirms their current instructional pedagogy. Conversely, if applying findings does not work in their classroom, teachers will abandon the effort. One elementary teacher described an unsuccessful attempt to put research into practice in the following way:

> The first year I was teaching, I was trying to implement some research into a math lesson. I thought the lesson was fantastic. I’ll never forget: One of my students came to me during the class and told me that nobody was interested in the class but me. And according to our data, it should’ve been wonderful. So I’ve learned to gauge my lessons by how my students are working. Once you lose the kids, it’s hard to get them back.

This example brings to light the little discussed issue of the amount of time that teachers might be expected to try a research-based practice in the classroom, their autonomy to do so, and whether additional supports might be appropriate to help teachers try new practices.

Finding 3: Teachers turn to research when there is a pressing concern but often only after they have consulted other, more efficient resources.

Before teachers look at research to address clearly defined issues, they are more likely to turn to colleagues, trade journals such as The Reading Teacher, or the Internet—starting with Google. One high school teacher explained the process in the following way:

> It’s a lot easier to walk down the hall and ask my colleagues who’ve had similar experiences or more experience than I do. I just sat down with a colleague the other day, to go over history knowledge that I could’ve looked up in a journal or a book, but I’d rather go to someone who I know has taught it and can explain it to me in a way that would help my students the best. And it’s efficient, because I already see them.
As part of this professional collegiality, research can be shared. Teachers report that they also will use educational research when they are part of a study group, committee, school initiative, or other work group that uses research findings to support learning more broadly.

In addition to consulting their colleagues, focus group participants mentioned that they will search for research, usually through the Internet, to address particular and concrete needs. For example, teachers spoke of consulting research about working with specific populations such as struggling readers; special education students; English language learners (ELLs); or lesbian, gay, bisexual, and transgender (LGBT) students. Similarly, they turned to research to address a specific content need, for instance to gather information on an upcoming lesson. Finally, they might use research by reviewing information they have encountered in the past, such as best practices for a particular area.

Some important differences in teachers’ use of research also emerged in the focus groups. First-year teachers were least likely to access educational research, noting that they were still trying to navigate the demands of the profession. In contrast, veteran teachers, particularly those with more than 15 years of experience, were more likely to serve on committees that influence school initiatives and they looked to research to inform broader school policies more than classroom instruction. In addition, high school teachers noted that they were more inclined to access content-based research than studies about pedagogy.

**Findings Related to Barriers That Prevent Teachers From Consulting Research to Inform Instruction**

Even though teachers may access research in response to a specific need, several barriers prevent teachers from accessing and using research as much as they would like.

**Finding 4: Teachers indicated nearly unanimously that, given competing demands on their time, both seeking and reading research are low priorities.**

This concern was shared by teachers of all experience levels in urban and suburban elementary and high schools serving students from higher income and lower income families. In light of their limited time, teachers stated that they are less likely to read research when it is presented with overwhelming information and in a manner that is dry and difficult to decipher.

As one elementary teacher stated:

> My mom has a Ph.D. in education, and I’ve tried to learn from those journals, and they’re just awful. They’re long and they’re boring and they don’t give practices to implement in a high school classroom. They just give very abstract findings, obscure findings.

Another elementary teacher reported:

> The statistics were presented in a way that was difficult for me to make heads or tails of. So I would love to know more about what’s going on at the university level, but something is sort of lost in the translation. Not that it needs to be watered down, but it’s just not accessible. It just feels like there’s a little bit of a bridge missing between what...
they’re doing at the university level and for that information to get filtered down to teachers in the classrooms.

Compared to their more experienced counterparts, new teachers were particularly resistant to spend time seeking educational research. Because these new teachers had recently completed school, during which they were steeped in research, some mentioned that they do not need to consult research and, instead, would rather direct their time and energy toward effectively implementing what they already have learned.

However, even though focus group participants stated that they often do not have or make time for educational research, some teachers mentioned that they would be more likely to read research if administrators advocated for and provided sanctioned time for teachers to discuss research with their colleagues. For example, one elementary school received a grant that supported a teacher study group focusing on professional development about instructional strategies for reading. Although the study group was not focused specifically on reading research, it illustrates one way that administrators can support teachers trying new strategies.

In addition, teachers suggested that they also would be more likely to read research if the massive volumes of research were screened and filtered by school leaders or administrators.

The desire to receive research findings as a bulleted list, brief synopsis, or audiovisual media also was cited by an overwhelming majority of teacher participants as a way to access the research findings without taking time away from students’ more pressing needs. With their time at a premium, teachers indicated that the barriers posed by other issues become an even greater hindrance to teachers’ use of research.

**Finding 5: Teachers are less likely to use research if they do not see a connection between the population studied and its applicability to the students in their classroom.**

Some teachers suggested that the research setting is so controlled that they would be unable to replicate the program or practices in their classroom, while others believed that certain aspects of their own classroom, such as a high concentration of ELLs, make many research-based teaching strategies inappropriate for their students. If teachers believe their classroom does not reflect a study’s students, resources, or context, they will be less likely to try to read or apply the findings. As one high school teacher noted:

> First of all, I often find myself asking “Does this apply to my situation here at [my school], in the classrooms that I’m in?” Because a lot of times, it doesn’t. It’s a different setting. So, things that they have in there just may not apply to the kinds of setting that we’re in. But, I also like to see how big is the study, how many people are involved, is it anecdotal, and does it square with my own personal experience.

In some cases, concerns about the usefulness of research sprung from teachers’ first days in the classroom and the mismatch between what they were taught and what they encountered. Disillusioned by the irrelevance of the research discussed in teacher training to their real-life classroom situations, some teachers subsequently became less open to research as a practical way to find useful information.
Research can be made more appealing to teachers if it includes practical examples and illustrations (e.g., of student work, lesson plans) of how the findings may be readily translated into their own classrooms.

Some teachers also noted a desire to speak directly with researchers at conferences or professional development workshops in order to ask questions about the study context, methods, and applicability to other settings. Taking the issue a step further, some teachers desired to be consulted by researchers or to partake in collaborative research endeavors alongside researchers in order to ensure that the research questions, language, and tone spoke to teachers and their actual concerns.

**Finding 6: Although time and relevance were the most cited barriers, other issues also limited teachers’ use of research in some cases.**

One such barrier is the prohibitive costs of books and articles, memberships in professional associations, and inviting researchers to present in professional development activities. In the words of one participant:

Cost is a barrier in some ways. To be a part of professional organizations, it can be expensive…. Then you’re not only using Google and stuff that’s on the general Internet, but you have access to those journals that are providing you with that research. And databases are expensive. So I think cost is definitely a barrier.

In some cases, a lack of access to functioning computers in the classroom hindered teachers from seeking online research. Finally, a handful of teachers expressed hesitation over their own or their colleagues’ preparedness to navigate search engines effectively.

**Summary of Findings**

In all, focus group participants were not opposed to using educational research; rather, they indicated that as long as certain conditions and criteria are met, research is or can be informative to their instructional practice. For research to be most useful to teachers it needs to (1) take into account teachers’ limited time by presenting findings in a clear, user-friendly manner; (2) appear relevant to teachers’ own classroom context and experience; and (3) be provided by a person or organization they trust.
Recommendations

The goal of this exploratory study was to shed light on whether, which, under what circumstances, and how educational research is used by teachers in order to inform the future production and dissemination of research. According to John Dewey (1929, p. 76):

The sources of educational science are any portions of ascertained knowledge that enter into the heart, head, and hands of educators, and which, by entering in, render the performance of the educational function more enlightened, more humane, more truly educational than it was before.

For educational research to enlighten and improve teachers’ practice, certain changes must be made by educational researchers and other stakeholder groups. Based on the findings from this study, several recommendations are presented for researchers, teacher preparation programs, and school and district leaders and policymakers.

Recommendations for Researchers

Teachers genuinely want their students to benefit from the findings of good research. However, there is somewhat of a mismatch between what currently is supplied and what is demanded by teachers. This mismatch is not necessarily due to researchers’ carelessness or lack of concern; quite the contrary, it may be largely due to researchers’ extreme care to present their findings as precisely as possible—a process that may lend itself to obscure language and lengthy discussions. In order to bring supply and demand into equilibrium, researchers should:

- **Get to the point.** Teachers are busy and want to see bulleted lists and brief synopses of the research findings. Not only does this approach help ensure that teachers will benefit from findings, but it also conveys to teachers that researchers understand and appreciate that teachers’ time is at a premium.

- **Provide examples of the applicability of the research to real classroom situations.** This approach may include illustrations and hands-on examples of how to put the research findings into practice. Also, many teachers consider themselves visual learners and have expressed a desire to access research through audiovisual technology that allows them to see the recommended instructional practices put into action.

- **Write in an accessible manner.** This directive does not mean that research findings should be watered-down; rather it means that unnecessary jargon should be avoided in favor of straightforward language and sentence structure. In addition, complex statistical analyses should be described in laymen’s terms.

- **Emphasize how research findings can help teachers solve specific, immediate classroom problems or address students’ particular learning needs.** The demands of teaching tend to prevent teachers from exploring future-oriented or higher order issues than those immediately at hand; however, there was near consensus among teachers that research is consulted in response to pressing needs.

- **Highlight the attributes positively associated with research.** Teachers already appreciate that good research represents a trustworthy and solid basis for coming to
conclusions about what works in the classroom. Research that reminds readers of these qualities and how they inspired the study is likely to be better received by teachers.

- **Be clear about the context of the study and its applicability to other settings.** Teachers are quite skeptical about the relevance of studies conducted in different contexts, especially when there are clear differences in grade level, ability level, socioeconomic level, class size, behavior, and culture. It is important to make clear which population was studied and, if it is believed that the findings are generalizable, to emphasize that point.

- **Be proactive about engaging with teachers and spending time in schools.** Although the demands of doing research may make it difficult, spending time in schools and with teachers, being available to present findings and answer questions about the research, and working collaboratively with teachers at each stage of the research process will make research more relevant and useful to teachers.

**Recommendations for Teacher Preparation Programs**

Teacher preparation programs play an important role in building the foundations for a research-oriented teaching career. As the gateway to the profession, they shape teachers’ views and approaches to using research to inform their practice. In some cases, they also are the closest source of access to research and researchers that teachers will receive during their careers. Specifically, teacher preparation programs should:

- **Be proactive about bringing teachers and researchers into contact.** Bridging the gap between teachers and researchers requires that the two groups build trust. This goal can be accomplished through interaction from the early stage of their careers: their preparation. It might take on the form of joint seminars, coffee hours, or project work, for example.

- **Prepare teachers to find the research they likely will need.** A number of teachers mentioned difficulty in using search engines effectively, deciding which research is credible, and making decisions about which sources to trust when studies contradict one another. Those individuals charged with preparing teachers should ensure that preservice teachers learn how to search for research effectively, how to evaluate the quality of research, and how to interpret the findings.

- **Encourage and support teachers in accessing research once on the job.** Teacher preparation programs cannot feasibly address all of the potential classroom experiences that new teachers might encounter. It is important to make it clear that gaps between the knowledge gained during preparation and strategies needed to address the particular needs they will face in their specific classroom contexts can be filled in part through access to research on the job. A few teachers attributed their current use of research to their continued contact with and guidance from former graduate school professors.
Recommendations for School and District Leaders and Policymakers

School and district leaders and policymakers in schools and government have an important role to play in facilitating teachers’ use of research by taking action to overcome barriers to teachers’ access to research. Such strategies primarily involve the provision of time, encouragement, and resources. Specifically, leaders and policymakers can:

- **Create a system to filter high-quality research to teachers.** Although some teachers prefer to search for useful research themselves, having school administrators or teacher leaders filter research is helpful because it makes the task of locating relevant research less overwhelming, it comes to teachers from a trustworthy source, and it provides a channel for support and communication between teachers and school or district leaders.

- **Ensure that teachers have enough structured time specifically intended for accessing, collaborating on, and reflecting upon research.** The primary barrier to teachers’ use of educational research was simply not having enough time. By providing adequate planning periods and support staff to guide teachers toward high-quality research, this type of professional growth and learning can take place. Teachers should be provided with regular time to work with others in their subject and grade level to discuss research findings and learn how to coherently apply those findings to teaching the school’s curriculum. In addition, teachers should receive support from administrators and sufficient classroom autonomy in their implementation of research-based findings.

- **Create school or district initiatives that encourage and provide the time for teachers to access research.** Teachers appreciate time to discuss strategies and best practices that are backed by research. Providing regular opportunities for teachers to participate in committees or lead departmental meetings that include discussions regarding research is likely to enhance teachers’ use of research.

- **Provide professional development opportunities that include opportunities to learn about and reflect upon research.** Some teachers cited high-quality, ongoing, job-embedded professional development workshops as among the most useful sources of research that encouraged them to put research to practice in the classroom.

- **Maintain high-functioning technology for accessing research.** The Internet was the most cited source for accessing educational research. Yet in some cases, broken or slow computers, as well as blocked websites, presented a barrier to teachers who wished to access research.

- **Create a library of educational research.** Currently, teachers tend not to rely on libraries as a source of research-based information. Devoting a section of the school library or creating a staffroom library to house articles, books, and digital media that exhibit the characteristics of research that are useful to teachers is one way to provide busy teachers with easy access to research.

- **Support the dissemination of research to teachers.** The cost of journal subscriptions, books, and workshops can be a real barrier to teachers’ use of research. Local and state-level policymakers should consider ways to reduce or eliminate this financial burden to encourage teachers’ access to knowledge that is likely to help improve student learning.
Limitations and Future Research

This study has two key limitations. First, as an exploratory study, the sample size was small, tapping into the perspectives of only 49 teachers from the same geographic area. Second, participation in the focus groups consisted largely of elementary school teachers; there was not a representative view from middle or high school teachers.

Despite these limits, this study provides thought-provoking insights into the teachers’ use of research, insights that could be well worth exploring through additional study. Future work might further explore these ideas in a variety of ways, including obtaining the perspective of educational researchers, exploring the role of social networks in disseminating research-based practices, and investigating the use of research by particularly successful teachers.

Perspective of Educational Researchers

Although this exploratory study examined teachers’ perspectives on educational research, if the desire truly exists to bridge the gap between researchers and practitioners, one possible next step is to hear directly from educational researchers: Do researchers view their work as a means to improving instructional practice? More specifically, do educational researchers have aspirations to disseminate findings in ways that that are useful to teachers, and, if so, are there barriers that prevent this from happening?

As the other half of the researcher/practitioner divide, educational researchers provide a much needed perspective on research, its purpose, and the way that findings are disseminated. After the view of researchers is clarified, the two points of view (researchers and practitioners) can be compared for similarities as well as areas of disagreement. By identifying teachers’ and researchers’ perspectives, the two communities can be brought together to discuss ways to make research findings relevant and useful for both parties.

Social Networking

The majority of focus group participants indicated that they would be more likely to turn to colleagues for information about how to improve instruction before consulting research findings. Exploring how teachers use social networks to gather information may lead to a better understanding of how to more effectively disseminate research findings. A future study, then, could explore possible connections between group norms, social influence, and use of research. For example, how do group norms or school culture influence the way teachers use research? Do teachers in schools with stronger collegial networks influence whether their colleagues use or access research? Do teachers who are part of an organized cohesive group, such as a professional learning community, access research more frequently?

Effective Teachers and Use of Research

Another potential avenue for exploration includes looking at whether teachers who have been identified as particularly effective by district or school performance metrics use research to inform their practice: Are effective teachers more likely to access research than teachers who are less effective in the classroom? Do they make more time to access research? Are they part of programs or communities that support using research?
Bridging the Gap

Several organizations have created online forums where teachers can access research-based information. Although the list that follows is certainly not exhaustive, it can serve a starting point to assess the types of information that are available to educators.

**Center for Teaching Quality**
http://www.teachingquality.org/

The Center for Teaching Quality (CTQ) focuses on teacher leadership, research, and policy. CTQ produces research that focus on teacher working conditions, effective science teaching, and higher education. In addition to disseminating research findings, CTQ provides Web users with access to several blogs written by teachers on topics such as high-need schools, teaching science, music education, and best practices.

**International Reading Association**
http://www.reading.org/

The International Reading Association (IRA), which consists of roughly 85,000 members, supports literacy professionals through access to resources, advocacy efforts, volunteerism, and professional development. IRA produces several peer-reviewed journals, including *The Reading Teacher*, *Journal of Adolescent and Adult Literacy*, *Reading Research Quarterly*, and *Lectura Y Vida*. In addition, IRA supports the online journal *Reading Online*, which houses journal articles on topics such as adolescent literacy, assessment, children’s literature, classroom strategies, and motivation.

**Marzano Research Laboratory**
http://www.marzanoresearch.com

Several focus group participants noted that they turned to Robert Marzano’s research and work as a positive example of the way research effectively makes its way into the classroom. Marzano’s website serves as a clearinghouse for research-based instructional strategies that can be translated into practice. Marzano provides Web users with access to a database that includes meta-analyses of action research projects. The website also directs teachers to research-based instructional strategies and provides direction on how to meet standards and use assessments. In addition, teachers can find information on teaching vocabulary, school leadership, and classroom management.

**National Council of Teachers of Mathematics**
http://www.nctm.org/

The National Council of Teachers of Mathematics is a professional organization that provides teachers with information not only about best practices in mathematics instruction but also about professional development, research, and advocacy.
University of Chicago Consortium on Chicago School Research
http://ccsr.uchicago.edu/

The University of Chicago Consortium on Chicago School Research (CCSR) conducts research
of high technical quality to inform and assess policy and practice in the Chicago Public Schools
(CPS). CCSR aims to expand communication among researchers, policymakers, and
practitioners and support the search for solutions to the problems of school reform. CCSR
encourages using research to impact policy action and improve practice, but it does not argue for
particular policies or programs. Rather, CCSR builds capacity for school reform by identifying
what matters for student success and school improvement, creating critical indicators to chart
progress, and conducting theory-driven evaluation to identify how programs and policies are
working.

What Works Clearinghouse
http://ies.ed.gov/ncee/WWC/

The What Works Clearinghouse (WWC) is a U.S. Department of Education resource that offers
more than 700 publications and more than 10,000 reviewed studies in an online searchable
database. WWC staff review educational research, determine what works in education, and
summarize the best information to help teachers make evidence-based decisions in their practice.
WWC products include practice guides, which help educators address classroom challenges;
intervention reports, which guide evidence-based decisions; single study reviews, which examine
research quality; quick reviews, which give the WWC’s assessment of recent education research;
and the studies database, which contains all WWC-reviewed studies. Topics of focus include
children and youth with disabilities, early childhood education, English language learners,
literacy, math, science, and student behavior.
References


Additional Resources


Appendix. Focus Group Protocol

Hello, I’m_____________________, and I am here to learn more about if and how you use research to inform teaching. As part of this study, we are particularly interested in what, if any, research you use, and how it is useful. We are also interested in exploring ways to bridge the gap between research and practice.

None of the information collected from you will be used to evaluate your performance as a teacher. More broadly, our team is not using the information from the focus group to make any judgments about specific teachers or schools. Your responses to the focus group questions will remain confidential, and you will not be identified in any of our reports.

Thank you for taking the time to talk with me. I would like to tape-record the focus group in order to accurately capture everything you tell me. We will also be taking notes during the focus group. Do I have your permission to record the conversation with you? [Note: If the respondents wish not to be tape-recorded, take notes, but do not proceed with recording. If yes, turn the tape recorder on, and repeat the informed consent question.]

It would be helpful if we could go around the group and do introductions. This provides me with some context as you respond to my questions. Please say your first name, the grade you teach, the number of years you have taught at this school, and the number of years you’ve been teaching overall.

Before we begin our conversation, I want to remind you that when we are talking about research, we mean research that you might consult to inform your teaching. We are not looking at action research—the type of research that you would conduct in your own classroom. Let me know if you need any clarification on the type of research that we are interested in discussing with you.

1. Do you seek out research-based information? Why or why not? (Probe: How often? Under what circumstances?)
2. In education, when you hear the word research, what kind of information comes to mind?
3. Is there research that you find useful? If so, what type? (Probe: How does research benefit you? Your students?)
4. What sources do you rely on to find useful research? (Probe: Journals? Trade magazines? Internet searches?)
5. Do you determine whether the research you are using is credible? If so, how? (Probe: Rigorous?)
6. Have you encountered barriers to using educational research? If so, what were they?
7. Is there anything that would make using research more appealing to you? (Probe: What kind of support would make using research easier for you?)
8. How have you been prepared to use research? (Probe: Graduate programs? Professional development? Self-study?)
   8a. If you have been prepared to use research, do you think this preparation was adequate? Why or why not?
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New York, NY
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