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ABSTRACT

This study of 67 preservice and 67 inservice teachers' performances on computer-based scenarios, prompting instructional decision-making and using embedded assessment, illustrates differences in how experienced and novice teachers make technology integration decisions. The major findings that emerged from the comparative analysis of novice and expert teachers' exploration of the scenario and essay responses to its central question are that: (1) Inservice teachers addressed significantly more key elements of educational technology integration and implementation principles; (2) Inservice teachers' essay responses were more focused on the use of technology as a learning tool and the importance of professional development while preservice teachers emphasized neutral topics such as the ubiquitous nature of computers and access to hardware and software; and (3) Both inservice and preservice teachers rarely mentioned assessment in their justifications. These results suggest that the teaching experiences of the inservice teachers influence their justifications for decisions. (Contains 11 references, 5 figures, and 1 table.) (Author)

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ABSTRACT

This study of 67 preservice and 67 inservice teachers' performances on computer-based scenarios, prompting instructional decision-making and using embedded assessment, illustrates differences in how experienced and novice teachers make technology integration decisions. The major findings that emerged from the comparative analysis of novice and expert teachers' exploration of the scenario and essay responses to its central question are that: (1) Inservice teachers addressed significantly more key elements of educational technology integration and implementation principles; (2) Inservice teachers' essay responses were more focused on the use of technology as a learning tool and the importance of professional development while preservice teachers emphasized neutral topics such as the ubiquitous nature of computers and access to hardware and software; and (3) Both inservice and preservice teachers rarely mentioned assessment in their justifications. These results suggest that the teaching experiences of the inservice teachers influence their justifications for decisions. Experience counts.

(Keywords: preservice education, computer-assisted instruction, computer-assisted assessment, technology integration, problem solving, decision making)

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INTRODUCTION

How can online, case-based simulations with embedded assessment be integrated into teacher education to develop, assess, and track preservice and inservice teachers' technology-integration decision making? We will present data on how web-based simulations powered by the IMMEX™ problem-solving assessment software were utilized to capture how experienced and novice teachers differentially make decisions when infusing technology into instruction. Supported by a Department of Education Preparing Tomorrow's Teachers to Use Technology (PT³) grant, two PT³ investigators have co-developed case-based, computer simulations of classic classroom technology implementation scenarios to enhance future teachers' conceptual foundations and decision-making skills on integrating technology into the curriculum, called *eTIPs* problem sets.

The complex nature of teaching challenges educators to make subtle judgments and agonizing decisions in daily classroom practice. Expanding instructional options with technology integration increases the complexity of the decisions teachers need to act upon. Skillful teachers anchor their practice in a combination of theory and praxis (Merseth, 1996). Case methods, when used appropriately, have the potential to bridge theory and practice (Shulman, 1992). Considering that preservice teachers lack the practice and are in the process of developing the theory, case methods could be used as a pedagogical tool to provide future teachers with experiences that mimic potential classroom dilemmas, including technology integration, that elicits active analysis, interpretation and the application of technology integration and implementation principles, early in their education, prior to actual classroom teaching.

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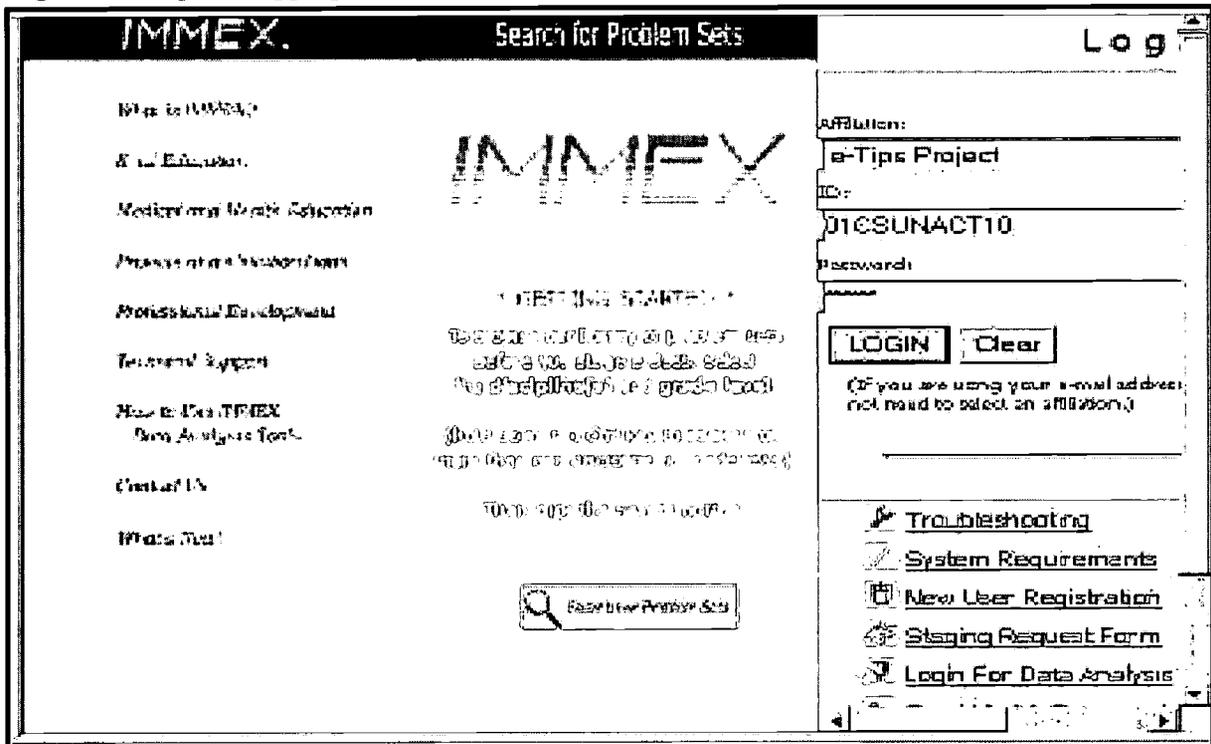
Building on the IMMEX digital curriculum of case-based simulations for medical education and K-12 education, eTIPs problem sets for teacher education consist of three essential components: (1) a *prolog*—an opening scenario that presents a technology-integration challenge commonly encountered in “real” classrooms across the nation; (2) a *problem space*—menu items with data for research, analysis, and consideration; (3) an *epilog*—a summary of the potential logic a teacher could employ in solving the classroom dilemma.

When teachers attempt to solve an eTIPs problem set, they logon with a customized ID and password (Figure 1). The first screen encountered consists of the prolog in the main frame at the center and an accompanying problem space with primary menu options on the menu bar in the top frame (Figure 2). Based on how teachers conceptualize and frame the challenge and question posed in the prolog, teachers conduct a search in the problem space by selecting and analyzing individual menu items. Information on the simulated school for teachers to analyze and reach their decisions consist of teacher profile, student profile, school and classroom-based resources, with emphasis on technology, classroom configuration, classroom pedagogy, assessment, and scenario context, including information on student and teacher schedule, attitudes toward technology and professional development. As teachers execute their research in the defined problem space, the IMMEX problem-solving assessment system records each menu-item selection in chronological order. Additionally, the software generates a map that illustrates teachers' step-by-step problem-solving approach, which can be used to guide assessment and engage learners in metacognition (Underdahl, Palacio-Cayetano, & Stevens, 2001). Upon

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completion, teachers compose an online justification for their decision to integrate or not integrate technology (Figure 3). Teachers' essays are scored based on the number of educational technology integration and implementation principles—eTIPs—addressed (Dexter, 2002).

Figure 1--Step 1: Logging on to an eTIPs Problem Set with Individualized ID

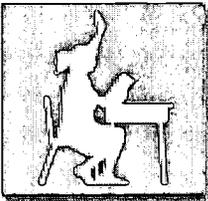


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Figure 2--Step 2: Interactive Problem Solving

[Teacher Profile](#) [Students](#) [Resource Information](#) [Technology Available](#) [Classroom](#) [Contact](#) [Curriculum & Assessments](#)



You have taught fourth grade at Pine Hill, an urban K-5 school, for one year. Recently, the district passed a bond referendum that allowed your school to purchase some educational technology. These purchases include a group of laptop computers and software for the exclusive use of the grades 4 and 5 teachers. You are planning for the next month and need to make a decision this week about where and how, or even whether, to incorporate the use of technology into upcoming units for the fourth grade.

After you have used the menus to explore the information provided here, state your decision about whether or not to incorporate educational technology resources into your curriculum in the "Solve" menu item. If your decision is to integrate, also describe how you would do so. Use information from the case to explain and justify the answer you submit.

Home

Logout

Enrolled Classes

Problem Sets

Case History

Score

Solve

Home

Logout

Enrolled Classes

Problem Sets

Case History

Score

Solve

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Figure 3--Step 3: Composition of Essay

The screenshot shows a web-based interface for composing an essay. At the top, there is a horizontal navigation menu with several items, each preceded by a small circular icon: 'Teacher Profile', 'Statistics', 'Answered Questions', 'Technology Available', 'Classroom', 'Content', and 'Curriculum & Assessment'. Below this menu is a large rectangular area. On the right side of this area, the text 'Please enter your solution below:' is displayed. In the center of this area is a large, empty rectangular text input field. Below the input field are two buttons: 'OK' and 'Clear'. At the bottom of the interface is a horizontal navigation bar containing seven buttons: 'Home', 'Logout', 'Enrolled Classes', 'Problem Sets', 'Case History', 'Score', and 'Solve'. The entire interface is enclosed in a thin black border.

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Figure 4--Step 4: Access to Search-Path Map and Problem Summary

The screenshot shows a web application interface with a navigation bar at the top containing links for Teacher Profile, Students, Request Information, Technology Available, Classroom, Content, and Curriculum & Assessment. The main content area is divided into a left sidebar and a main panel. The sidebar, titled "Teacher Profile", includes radio buttons for "Participating Teacher" (selected) and "Team Teacher's Profile". The main panel features a cartoon character icon, a link for "My Search Path Map" with a note about needing Acrobat Reader, and a link for "Problem Summary". Below this, the user's alias "Alias789" is displayed, followed by the text "Here's the list of items you have ordered:". A table lists the ordered items with columns for "Ordered Item", "Elapsed Time", "Cost", and "Score".

Ordered Item	Elapsed Time	Cost	Score
Case History	0:00:00:16	0	0
Solve: test	0:00:00:07	0	0

At the bottom of the interface, there are two rows of navigation buttons: "Home", "Logout", "Enrolled Classes", "Problem Sets", "Case History", "Score", and "Solve".

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PURPOSE AND OBJECTIVES

Our goal was to conduct a comparative analysis of preservice and inservice teachers' strategies and justifications on computer-based simulations to examine the impact of experience on technology integration and implementation decisions. Hence, the following two questions guided this research.

- What are the primary considerations both experienced and novice teachers make when deciding whether or not and to what extent to integrate technology into instruction?
- How do experienced and novice teachers differentially make technology integration decisions?

THEORETICAL FRAMEWORK

While rapid advances in technology and the proliferation of computers in schools have expanded pedagogical options for educators, teachers continue to struggle with how and when to integrate and implement technology effectively into instruction. According to Pierson (2001), schools are so eager to purchase and have teachers begin using technology, that they mistake simply having and turning on a computer as integration. However, merely knowing how to use a computer is not sufficient to ensure that teachers will effectively integrate technology into the learning curriculum. Instead, a teacher who effectively integrates technology is able to draw on extensive content knowledge and pedagogical knowledge, in combination with technological knowledge, when using technology in the classroom (Pierson, 2001).

One challenge facing teacher education programs today is preparing teachers to use technology effectively in schools (Wedman & Diggs, 2001). Using online problem-solving

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scenarios such as IMMEX can provide pre-service teachers with an appropriate context in which to construct knowledge about technology integration. These scenarios provide students multiple opportunities to learn to teach with, not just operate, educational technology around the following *Educational Technology Integration and Implementation Principles*: (Dexter, 2002)

eTIP 1: Learning outcomes drive the selection of technology.

eTIP 2: Technology use provides added value to teaching and learning.

eTIP 3: Technology assist in the assessment of the learning outcomes.

eTIP 4: Ready access to supported hardware/software resources is provided.

eTIP 5: Professional development is targeted at successful technology integration.

eTIP 6: Teachers reflect on, discuss, and provide feedback about the role of and support of educational technology.

IMPORTANCE OF THE STUDY

Cases and case methods have been used as a pedagogical tool in preservice education for many years as far back as the mid-1980s (Merseeth, 1996). Traditionally used in law, medicine, and in business, case methods are increasingly utilized in education to prepare teaching credential candidates to practice in a complex world where knowledge about teaching is not sufficient. Teachers and teacher candidates also need to know how to apply this knowledge in often complex and imperfect situations commonly encountered in the classroom. Case-based learning is an alternative method of instruction that enables teacher candidates to interpret complex situations that are in a constant state of flux and understand the theoretical issues involved. Analyzing case methods with frequently encountered classroom dilemmas in

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technology integration engage credential candidates in complex cognitive processes that underlie successful performance in classroom settings and provide them with an opportunity to determine and apply suitable theory or principle to a given situation. Most importantly, preservice teachers can begin to acquire tools that will foster informed decision-making in situations where there are no easy, clear-cut answers. Since it is still uncertain how teachers make the decision to integrate technology or not and to what extent despite the significant investment in technology and professional development in recent years, case-based simulations with embedded assessment, like eTIPs problem sets powered by the IMMEX problem-solving assessment software, have the potential to capture and provide visual displays of key decisions teachers make in planning instruction with technology (Zhao & Cziko, 2001).

Collaborating with both preservice and inservice teacher programs provided the UCLA IMMEX Project with a convenient sample and opportunity to contribute to research in teacher technology-integration decision-making, particularly addressing the following two questions. What are the primary considerations experienced and novice teachers use when deciding whether or not or to what extent to integrate technology into instruction? How do experienced and novice teachers differentially make technology integration decisions? Our observation that preservice teachers are inclined to focus on access to technology and marginally consider crucial dimensions of learning with technology such as technology implementation planning, prerequisite skills, and characteristics of learners, suggests curricular areas in need of increased emphases in educational technology curricula. Instructors can utilize data obtained from teachers' performances on IMMEX eTIPs cases to design instructional interventions and refine curricular content for future educational technology courses.

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DATA SOURCES

The data for this study are drawn from 67 preservice teachers from a technology in education course at an urban university in California sponsored by the Department of Education PT³ implementation grant and 67 inservice teachers in a California Department of Education technology initiative administered by the California State University Chancellor's Office. Preservice teachers solved the eTIPs cases as an assignment in their yearlong credential program. Similarly, inservice teachers performed the eTIPs cases as a requirement for a yearlong educational technology professional development program. Each teacher was supplied with a pre-assigned login ID and password and was given about 45 minutes to work independently in a computer lab setting.

Unlike another research project that we are currently conducting in which the six eTIPs were introduced in the course of study prior to online problem solving, teachers in this study did not receive direct instruction on the six eTIPs or provided with literature on current research on educational technology integration and implementation principles. No specific instructions were given to either group except to gather the data to make an informed decision and then discuss and justify their decisions in a written essay. Technology proficiency survey results from California Technology Assessment Project and IMMEX Project Evaluator's survey confirmed that both preservice and inservice teachers had introductory or novice computer skills.

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METHODS

IMMEX automatically recorded the sequence of actions of each teacher while they performed a parallel case in eTIPs problem sets allowing quantitative and qualitative comparisons of the information acquired by the two groups. Additionally, each sentence in the teacher justifications about whether or not to integrate technology was tagged for key elements of the eTIPs addressed allowing quantitative comparisons of their decisions. The analysis of teachers' essays enables instructors to learn the teacher's decision and his/her rationale for it, as well as the depth of their reasoning, as judged by their coverage of key educational technology integration and implementation principles.

Depending on the depth of a teacher's written response, an essay can earn a maximum 12 points, receiving up to two points for each of the six eTIPs. We used the following criteria to determine the essay's score on each of the six eTIPs.

- Zero--when the teacher makes no reference at all to the substance of the eTIP;
- One--when the teacher makes a general reference to the substance of the eTIP, or implies consideration of the eTIP; and
- Two--when the teacher discusses a specific eTIP comprehensively and provides supporting details from the information presented in the case.

Sample Scoring of Teacher Essay

"I intend to schedule a meeting with the other participating teachers so we can discuss possible objectives and to try to schedule our students for biweekly sessions in the computer room (**Technology integration Planning/Scheduling: eTIP 1**). I will contact my friend in another

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district to see if we can begin having our students sharing information on a regular basis (**Team Teaching: eTIP 6**). I would like to have our students participate in a hunt for education informational websites. They would be competing with the fourth grade students in my friend's district. Initially we would just graph the number of available sites on a particular subject. We would then have a secondary contest to write reports about specific subjects and exchange them with the students in the other district. Some of the students would be able to send their information from home. Other students would have to use the computers at home. We would also begin the year with a general review of computer knowledge (**Prerequisite Skills: eTIP 2**) to be sure most students are aware of the basics and can also navigate the internet and can use the e-mail I would schedule local High school students to come and work both on reading skills and to also assist the students with their writing (**Computer as Learning Tool: eTIP 2**) and their sharing of information with the students in the other district. I would encourage the other teachers in my group to take laptops home and check on the progress of the students.”

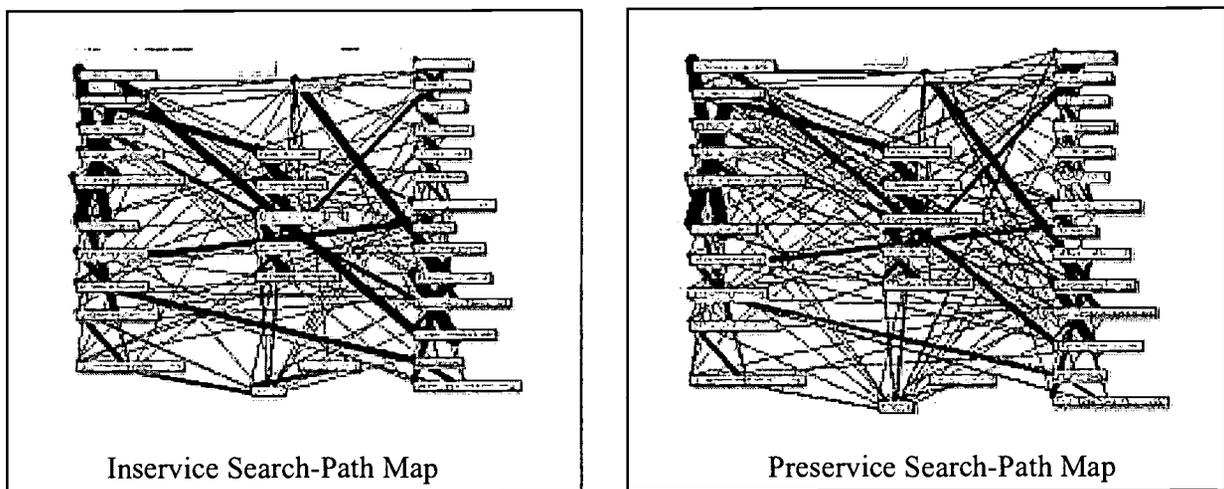
RESULTS

The analysis of the search-path maps (showing teachers' step-by-step search for information) and accompanying written essays revealed several insights into the users' instructional decision making about technology integration. Both preservice and inservice educators examined the majority of the information in the simulation moving sequentially through the menu items (Figure 1). While there were few item-selection differences between the groups, an independent samples T-test showed that inservice teachers addressed significantly more eTIPs in their essays than preservice teachers ($p < .01$). The analysis of essays for score on

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each eTIP also showed a differential mention of technology integration topics between the groups. Inservice teachers focused significantly more on eTIP 2, the use of technology as a learning tool ($p < .05$), and eTIP 5, the importance of professional development ($p < .01$) while preservice teachers were more likely to mention more neutral topics such as the ubiquitous nature of computers, impact of technology on teaching, etc. Both groups equally mentioned hardware, software and standards. Interestingly, the mention of eTIP 3, assessment, was rare for either group. A listing of the most frequently mentioned issues is shown in Table 1. These data indicate that although the two groups accessed the same data from the simulations, the experiences of the inservice teachers influenced their perception of the simulations and their written decisions.

Figure 5—Search-Path Maps for Inservice and Preservice Teachers



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Table 1—Most Frequently Mentioned Issues

	Preservice (Frequency)	Inservice (Frequency)
Technology Implementation Planning/Curriculum	11	35
Computer as Learning Tool	14	28
Prerequisite Skills	14	20
Cooperative Learning	10	20
Professional Development	4	12
Technical Support	8	15
Linking Curriculum to Technology	0	6

CONCLUSION

While unraveling how teachers make decisions to teach with or without technology is only a single component of developing teachers' technological competencies and instructional planning for technology integration, the impact can be far reaching. The ability to use eTIP IMMEX-powered simulations to capture variations in the quality of both preservice and inservice teachers' considerations and decisions for technology integration in a range of classroom environments by electronically reconstructing teachers' decision-making processes and coding teachers' written justifications for alignment with research-based educational technology integration and implementation principles provide support for eTIPs simulations as a viable instrument for developing and assessing teachers' conceptual knowledge of technology integration. The striking difference between the quality of the preservice and inservice teachers justifications for their decisions despite the similarity in their technology skills based on self reported surveys of technology skills suggests that teaching experience is one of the most significant influences on the quality technology integration. The higher incidence of key

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elements of educational technology integration and implementation principles in inservice teachers' essays was not accidental occurrence, but an experiential advantage. Experience counts! The infrequent mention of the assessment potential (eTIP 3) of technology by both preservice and inservice teachers most likely is a reflection of the limited use and access to technology for assessment in current classroom practice.

These findings can help to shape the quality of interventions in professional development and teacher education courses so as to maximize the level of technology integration and implementation capabilities in K-16 educators. Instructors can utilize data obtained from teachers' performances on the IMMEX-powered cases to design instructional interventions and refine curricular content for future educational technology courses. A deeper understanding of how teachers prioritize issues and make decisions about their instructional programs not only has immediate importance for current training programs, but also has implications for future directions of teacher education programs, creation of technology initiatives to enhance preservice and inservice teachers' technological competences, and school-site professional development in technology. Case-based simulations coupled with embedded assessment, like eTIP IMMEX-powered simulations, that can identify, develop and assess how teachers make decisions about designing instructional programs may hold promise for accelerating this understanding how teachers make the decision to integrate technology or not into instruction.

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