DOCUMENT RESUME

ED 446 084   SP 039 524

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TITLE   Meaningful Evaluation of Teachers and Teacher Education
                    Programs. Position Paper.
PUB DATE   1999-11-02
NOTE   23p.; Some figures may not reproduce adequately.
PUB TYPE   Opinion Papers (120)
EDRS PRICE   MF01/PC01 Plus Postage.
DESCRIPTORS   Educational Change; *Educational Technology; Elementary
                    Secondary Education; Higher Education; *Minimum
                    Competencies; Preservice Teacher Education; *Program
                    Evaluation; Teacher Competencies; *Teacher Evaluation;
                    Teachers

ABSTRACT
        This paper discusses a design methodology that would allow
schools and colleges to identify the salient and tangible practices and
processes that they will use to define their programs, explaining how to make
a powerful technology of evaluation part of the design. The paper emphasizes
the need to bring greater clarity to the core competencies and expected
outcomes of programs in order to make evaluation purposeful. Five key steps
are presented, using examples derived from a longitudinal school reform
project: (1) establish the pedagogical and curricular core competency of the
school or teacher education program; (2) build a curriculum model around the
core competencies; (3) support the model with organizational design, building
those structures that support the growth of faculty with the core competency;
(4) use technology to enable reform by translating the essential elements of
the reforms into practical tools that teachers, students, and parents can
use; and (5) employ principles of effective practice to connect the teaching
and learning processes. (Contains 5 figures and 18 references.) (SM)

Position Paper
Meaningful Evaluation of Teachers and Teacher Education Programs

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11/2/99

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The current backlash in education surrounding the accountability and standards movements (e.g., Houston, 1999) creates an interesting context within which to take a position on the identification of educational evaluation measures. The reasons for the backlash are consistent with the long history in education of fixing the parts while ignoring the whole. We have known for some time that educational systems and individual organizations are remarkably complex, frustratingly informal in their professional culture, and highly resistant to change (Evans, 1996; Sarason, 1990). As such they are ever ready to rebuff one dimensional innovation efforts. Whether it be the international trend toward devolving responsibility without providing the necessary expertise to make devolution work; providing access to technology without curriculum integration training, or setting new standards for teachers without engaging in the fundamental reform of models of preparation, we know the outcome all too well. In each case we see the same predictable and repeated pattern of failure.

So much of our accreditation and evaluation effort is disproportionately focused on the correlates of school success (e.g., adequacy of infrastructure, and the articulation of curriculum considerations as opposed to evidence of student outcomes). Far less emphasis is placed on those things that should be causally connected to the learning of students, largely because they are not formally established in the design of educational organizations. By way of comparison when accreditation or accountability standards move too rapidly toward a focus on student outcomes, their proponents face the opposite problem—educational organizations that have not evolved sufficiently to deliver those outcomes.

The Problem (With Pictures)

OPTION A: In education we reform this way:
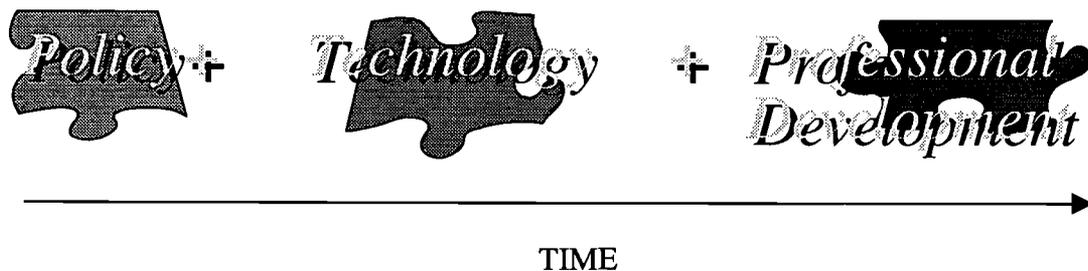
TIME

The problem with this picture is the parts never seem to arrive at the same time, nor do they fit together. We provide access to technology without a parallel effort to train and support adequately. The technology is underutilized despite the incredible expense required to put it in place. This type of reform results in a failure to make demonstrable improvement in the core activity of schools—student learning. The result is a stream of initiatives that orbit the periphery of educational systems and rarely penetrate the core of individual organizations nor the classrooms of individual schools, making legitimate evaluation exceptionally difficult (Elmore, 1996; Honig, 1994; Pogrow, 1996; Viadero, 1995).

OPTION B: We need to reform this way:

The issue with this approach is that our reform mechanisms are not geared to take the longer view required for systemic reform, nor do most reformers possess the skill-sets, resources, nor frequently the patience for the long road. Systemic reform in a single school or department can be a ten year long, high-risk process. It is hard to scale up rapidly and is heavily dependent on a change agent for much of the time. Despite these huge issues there is a growing awareness that Option A is a dead end and that we need to at least start asking questions about Option B.

Despite this somewhat pessimistic perspective about reform efforts, there exists a remarkable opportunity to design better programs that incorporate sound evaluation practice. We possess a powerful longstanding technology of teaching, learning and evaluation and a strong body of research on organizations and organizational behavior. We are right in the middle of an information revolution that offers us amazing tools to take care of the logistics of better program design and evaluation; and we have the historical precedent associated with the professional ascent of other fields as a guide. Collectively these assets should provide us with the toolbox to address the vexing questions we face in education related to program design and evaluation.

In order to capitalize on these assets we first need to recognize that our enthusiasm for evaluation in education transcends our technology for designing and influencing the objects of our evaluation. We have three challenging prerequisite questions to answer: What is the design methodology that will allow schools and colleges to identify the

salient and tangible practices and processes that they will use to define their programs? How can we make a powerful technology of evaluation part of the design? How do we get those new designs and programs in place by reconciling the human and technical side of change in a strategic methodology for innovation (e.g., Evans, 1996; Fullan, 1997)?

The thesis of this paper focuses on the first and second questions — the need to bring greater clarity to the core competencies and expected outcomes of programs in order to make evaluation purposeful. I have placed the emphasis here because of the need to first establish a clearer picture of what we can and should do.

How do we move our definition of educational programs from those that focus on the perceived correlates of student success to those that are causally connected to that success? How do we create the clarity of program design and implementation that brings legitimacy to evaluation and more important enhances student learning? There are some straight forward albeit courageous steps that can be taken in order to make programmatic reform meaningful and evaluable. I will identify five key steps using examples derived from a longitudinal school reform project

1. Establish the Core Competency

Establish the pedagogical and curricular core competency of the school or teacher education program. What practices does the school believe will influence the learning of students? How will it prepare faculty to deliver those practices and support them in their professional growth? For example, if a college professor is convinced that peer mediation should be taught in a methods course on teaching practice, then that faculty member should be able to train students to use it and should employ the practice in the course itself. As obvious as it seems, taking such a step requires a significant movement away from the prevailing journalistic approach to college teaching (the lecture including the meta-analysis of effects and if your lucky the classroom simulation) toward a model of clinically focused training.

A core competency approach requires that mission and policy be articulated in practice. To extend the previous example for the purpose of illustration, in a core competency approach contemporary research on peer mediation is examined and the salient characteristics are identified. Those salient characteristics are incorporated into the position descriptions and roles and responsibilities of faculty. Training is provided to introduce and teach peer mediation techniques in addition to the provision of ongoing support and feedback about the use of the practice. Even the design of physical space may be informed by a clear definition of practice.

What becomes possible when these "simple" steps are taken and then aggregated over all areas of competency is quite remarkable. First, and most important the secret of "best practice" is liberated for all to see and share or maybe more cynically the "emperor gets dressed."

—Meaningful evaluation becomes a possibility—

Following are screen shots of a suite of evaluation tools that were developed based on a school's definition of core competency in *teaching, curriculum design, collaboration and*

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teamwork, professional growth and the use of technology. The tools have been in use for two years to build collaborative performance reports, gather and analyze surveys and conduct classroom observations over a school network. Teachers can go on-line to observe peers, complete surveys and receive and give feedback to peers and administrators as well as receive feedback from students. Over 6000 teacher evaluations by students have been gathered and analyzed over a two-year period. Each tool is based upon well-researched practice in the field; multiple evaluation approaches are used to tap the domains of interest and the perspectives of all stakeholders are included. Each stakeholder group is evaluated while also serving as evaluators.

Classroom Observations   *Teacher Feedback*

Reports

Student Feedback   *School Performance*
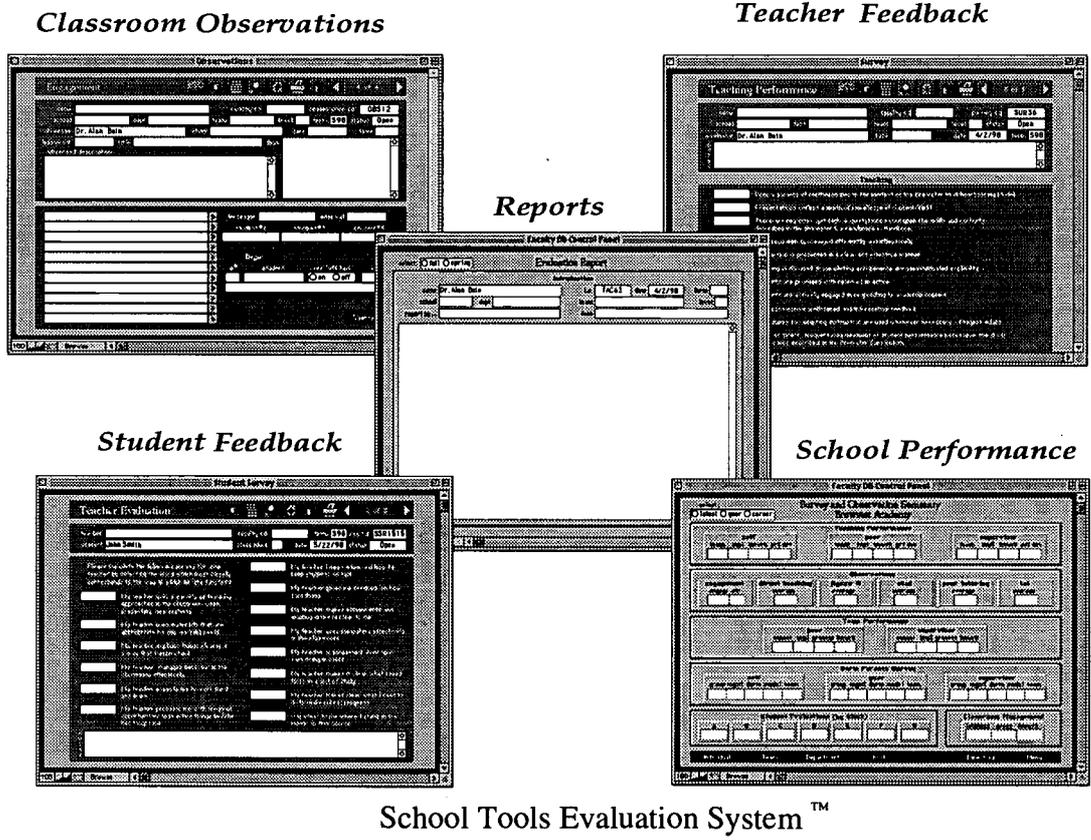
School Tools Evaluation System ™

Because the focus of the tools is the core competency, the professional lexicon associated with best practice becomes the domain of interest of all stakeholders. The questions on the student survey ask for specific feedback on student perceptions about their teachers' demonstration of the core competency in each of the domains of interest. The items on self, peer and supervisory surveys are aligned with the student survey and the results triangulated with classroom observation and permanent product in the form of curriculum. The focus and clarity in the definition of the evaluation object raises the collective intelligence of the organization (Engelbart, 1998) by creating a common understanding of those things the community believes exert an influence on learning. Students, teachers and parents all learn about good practice because it is no longer a mystery. The organization builds institutional mastery and leverages what it values as best practice (Senge,1994).

Consider the rich dialogue that can occur in an evaluation process when teachers and students are talking about the most effective way to organize groups in a cooperative learning lesson, its place in a curriculum unit, or how to best recognize individuals and groups. Compare this with the " has good rapport with students," or "uses technology or teaching approaches effectively" type of feedback that so often characterizes the "drive by" evaluation that goes on in many educational settings where the essence of what constitutes effective practice remains undefined.

Place yourself in the position of supervisor, teacher or student and consider also how much more productive a dialogue about collaboration and teamwork or the use of technology could be when those well researched characteristics of the approach are brought into the conversation through training, supportive feedback and valid evaluation mechanisms. From a teacher's perspective the expectations are clear and the conversation authentic; from an administrators perspective the expectations for supervision are unambiguous and the interaction between teacher and supervisor based upon common understanding and lexicon of professional practice. For students the benefit is better learning and the opportunity to learn about their learning as they work with teachers who demonstrate a consistent and demonstrable understanding of their professional skill set (Bain, 1999).

In the core competency approach good practice in teaching is not the only thing that is leveraged. Because the evaluation object is defined we can meaningfully leverage those best practices in evaluation, including multi-method approaches (e.g., ratings, observations, surveys, permanent products, collaborative conversation) that triangulate legitimate information from multiple sources (e.g., students, peers, supervisors, parents). In addition we leverage the use of information technology. The clarity of purpose allows us to build powerful tools that can address the well-documented logistical challenges associated with valid and timely performance appraisal.

We also preclude the need for the magic "score." The technology provides for easy triangulation and reporting allowing qualitative and quantitative data to remain in its original form. The tools build a powerful picture of performance based upon multiple perspectives and sources. The evaluation product is rich in perspective providing a validity that does not need to be reduced to a single statistical indicator. The information gathered serves not only as a basis for individual feedback but when aggregated across the school or program serves as a way to take the pulse of the institution in the areas associated with the core competency.
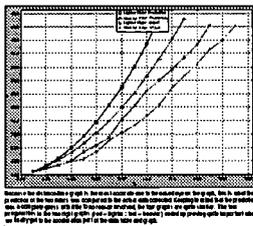
2. Build a Defined Curriculum Model

Build a curriculum model around the core competencies. Clearly quality programs are more than the aggregation of sets of best practices. The developmental course of curriculum and learner characteristics among other factors must be considered. However, the same research driven competency-based approach can be employed to build a curriculum model that integrates pedagogical approaches like cooperative learning into a developmental curriculum model. With such a model, not only is the sum of the parts evaluable, but the model itself.
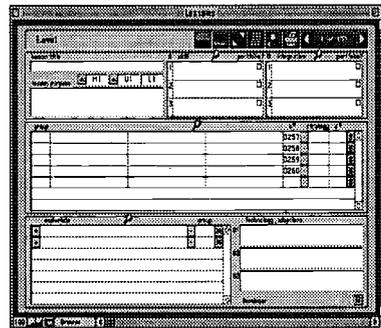
Following is an example of what is possible when the core competency associated with teaching and curriculum model is defined in a school setting. The screen shots are from a

suite of curriculum authoring tools that are used in a secondary school by faculty across disciplines to build and deliver curriculum. The tools are designed to integrate contemporary research on curriculum design including frameworks; authentic and portfolio assessment; (e.g., Wiggins, 1998, 1993); effective teaching, (e.g., Slavin, 1990; Rosenshine, 1986; Greenwood & Delquari, 1995); heterogeneous grouping (Wheelock, 1992) and adapting instruction to deal with individual difference(Huck, Myers & Wilson, 1989) as well as multi-level instruction and classroom management. The tools translate the school's core competency and curriculum design approach into a manageable design and delivery system for classroom use. They flatten the learning curve for faculty in their acquisition of knowledge in all areas associated with curriculum design and implementation by establishing a common lexicon of best practice and a common design methodology. And of course they reflect the items, methods and values described previously in the evaluation tools.
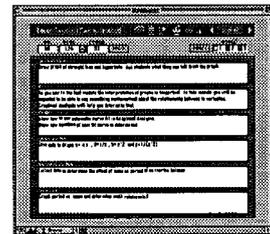
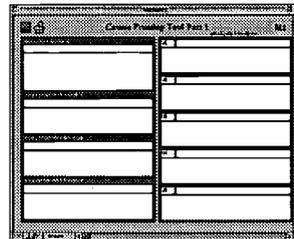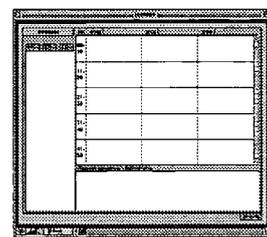*Authentic Assessment Resource*   *Lesson Design Tool*   *Lesson Plan*

Multi-Media Resource   *Curriculum Framing*   *Classroom Management Resource*

Curriculum Authoring Tools™

Consider the implications of this example from a technological perspective. The powerful use of technology is only possible because the core competency is defined. The school has articulated what it believes to be best practice in assessment, teaching and curriculum design and in doing so has enabled the creation of a curriculum design tool that in turn leverages the core competency by translating it into manageable classroom practice. Instead of a generic lesson planner we have an authoring system infused with research on teaching and learning.

3. Support the Model with Organizational Design

Build those structures that support the growth of faculty with the core competency.
If we reflect on the necessary prerequisite conditions to implement the two pieces of software describe in the preceding examples we can see the absolute need for a systems approach to our thinking with regard to the design and evaluation of educational organizations. Neither would be possible to implement unless first they were connected together but even more important those mechanisms to train support and recognize excellence in their use need to be part of the organizational structure. Consider trying to implement the curriculum software using the linear model described in the opening to this paper. It would be "management suicide" to bring such a curriculum reform on board without also addressing those factors in the design of a school that establish, support and encourage the use of the model.

Senge (1994) describes personal mastery and collaboration as essential characteristics of effective learning organizations. In our educational organizations we need to ask ourselves what kind of organizational characteristics will support individual mastery of the core competency and enable more than just the "heroes" to follow a path to better practice. This involves reconciling the personnel and professional growth structures in the organization with demonstrated excellence in the core competency, career, merit pay, faculty awards, portfolio assessment, integrated evaluation model, and collaborative organizational structures that devolve responsibility. Devolution becomes an exciting prospect when the individuals to whom authority is devolved have the skills in the core competency necessary to assume that responsibility.

Following are two screen shots from an electronic portfolio completed by a faculty member as part of a career progression process. The portfolio is set up as an authentic record of excellence in all areas associated with the school's model of curriculum and its core competency. Salary and career advancement is based on a demonstrated facility with the core competency, which develops over time. The portfolio also shows evidence of the connectedness necessary in the overall school design process.

The curriculum model and evaluation tools described previously make the form of the portfolio possible. The definition of program makes the portfolio valid. The portfolio process focuses the organization's attention on what it values and ensures that personal learning is central to the success of the school.
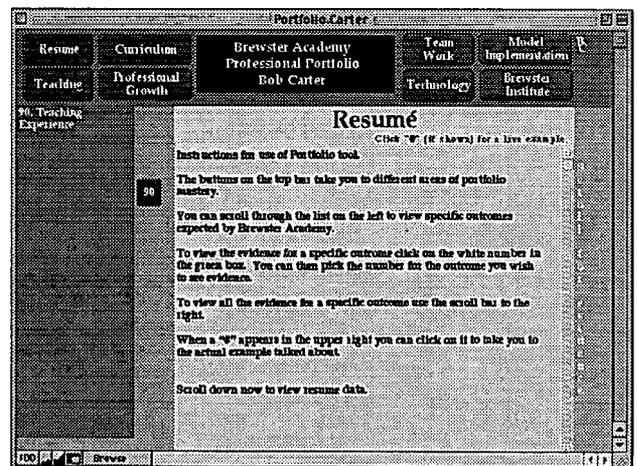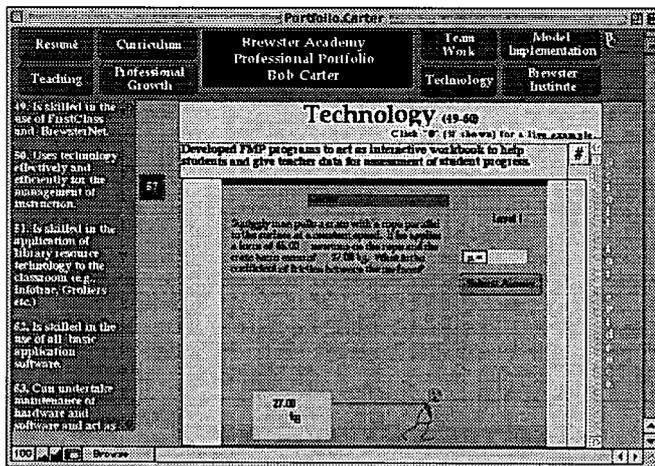
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4. Build a Technological Operating System

Use technology to enable reform by translating the essential elements of the reforms into practical tools that teachers, students and parents can use. A secondary goal of this paper is to show how technology can be used to meaningfully empower change in schools when we use educational solutions for educational problems. In the cases of both the evaluation and curriculum tools, their value is based upon the extent to which their design is infused with best practice in fields related to educational systems. Both are part of an operating system for a school. The system takes the essential aspects of the school's design and places them in a format that teachers and administrators use on a day to day basis to build curriculum, evaluate the program and interact with students. When the stakeholders use the tools they further the school's vision and program. School improvement is practical. The tools translate the vision into a classroom reality and in doing so allow us to test the reform itself. The technology when used in this way forces us to answer the "what do you mean by that?" question, that is so often left unanswered in school reform. The technology forces us to consider the ergonomics of our innovation. The tools have to work in clear and simple ways if they are to serve faculty and you can guarantee the reformers will hear all about it if they do not (Cuban, 1993).

5. Building the Connections

Employ principles of effective practice to connect the teaching and learning processes. This paper has focussed on those process steps that can be taken to improve/design a learning organization. Making sophisticated connections between the learning process and the product is clearly the final piece in the puzzle. How do we build the kind of sophistication necessary to link the performance of the organization to the learning of students? The answer is, in exactly the same way and using the same methods described in building the curricular model and overall design of the school. "Quality learning to teach is the same as quality learning to learn." This is a liberating idea. Those things that are important for student learning are equally compelling for our faculty. This includes authentic assessment, mastery learning, understanding our learning styles, collaboration and teamwork. In a true learning community we all benefit from a shared understanding of the learning process. We all use best practice. While faculty members employ personal portfolios to document the excellence in their teaching practice and career growth, students produce portfolios to graduate from the school using the same authentic assessment approach. Just as the evaluation tools described previously reflect those processes that are connected to quality teaching, so too do our measures of school related behavior that are predictive of student success in school, college and beyond.

Earlier I talked about a departure from the "single score" as a measure of teacher performance. This concern with reductionist measures of teacher appraisal is analogous to the backlash regarding the preoccupation with standardized testing as the metric of school success for students. In the model described in this paper standardized test scores are part of the student evaluation picture, however they are triangulated with portfolio evaluation, measures of social growth and community participation that include student learning about how to learn. This evaluation is undertaken in ways that are similar to the

evaluation of teachers learning about teaching. In doing so the organization finds a consistent point of reconciliation around its learning priorities that are reflected in the processes, programs and practices that it adopts for the growth of both students and teachers. The ultimate goal may be to blur this distinction.

Having spent the last eight years designing and implementing these processes it seems easy to roll them out in paragraph form. Suffice to say that each could constitute a position paper. However most important for the purposes of the present discussion is to emphasize the essential need for simultaneous attention to all aspects of a learning organization and the need for program clarity as a prerequisite to legitimate evaluation. This requires a systemic approach to the creation and reform of learning organizations. To make such an approach viable we need to take our models and ideas and try them out. This requires the engagement of research practitioners who are prepared to translate their models into practice. In doing so they must identify the associated core competencies, build tools for implementation and expend the energy necessary to build the human capital in schools and colleges that makes the rubber hit the road. None of this is easy. However one wonders what other choices we have after fifteen years of reform initiatives that have failed to make a sustainable difference in the core activity of schools beyond the idiosyncratic exemplar.

In concluding I am reminded of the remarks of the late Grace Murray Hopper, Admiral, U.S.N (the first woman Admiral in the U.S. Navy, and the inventor of COBOL) who long before NIKE™ would -"just do it" -in the face of the many challenges she experienced as a computer pioneer. Maybe this is at least in part the answer to the third question raised earlier in this paper. When we can "just do it" with respect to the systemic reform of our learning organizations, evaluation will be easy. We just need to define "it" first.

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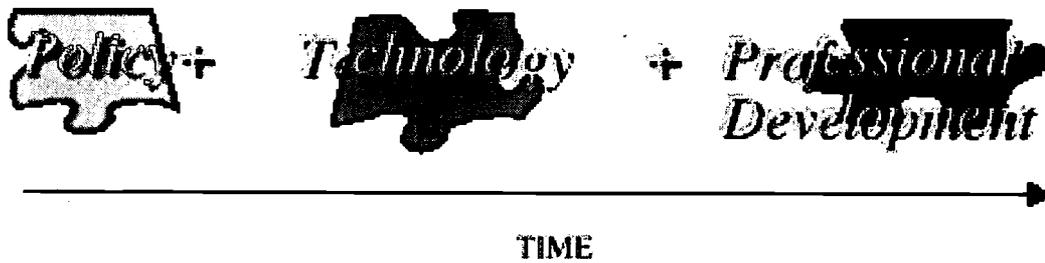
Figure:1 The Problem (With Pictures)
Option A: In education we reform this way:

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Option A: In education we reform this way:

The Problem(With Pictures)
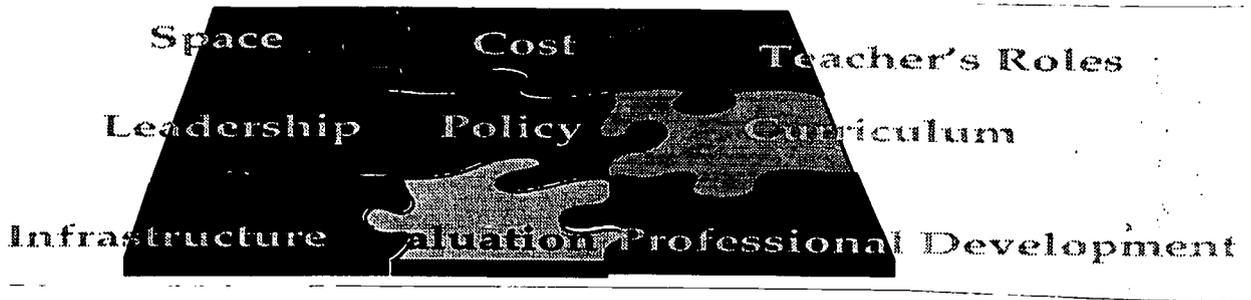
OPTION A: In education we reform this way:

Policy + **Technology** + **Professional Development**

TIME

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Figure 2: Option B: We need to reform this way:
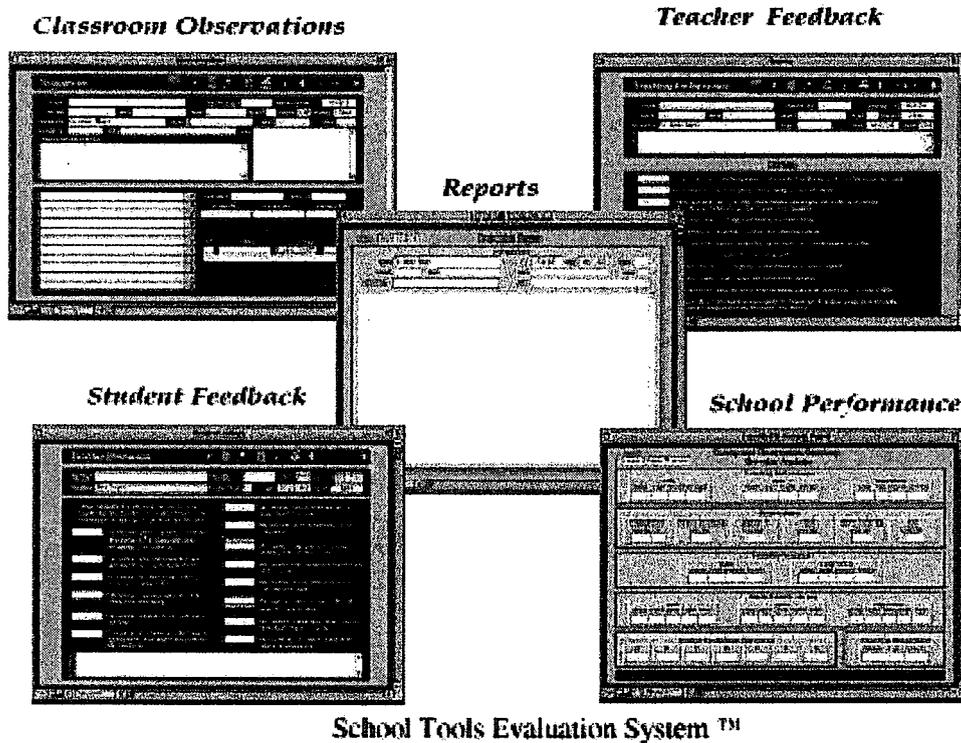
Figure:2 Option B: We need to reform this way:

OPTION B: We need to reform this way:

Space   Cost   Teacher's Roles

Leadership   Policy   Curriculum

Infrastructure aluation Professional Development

17

Figure 3: School Tools Evaluation System™

Figure 3: School Tools Evaluation System™

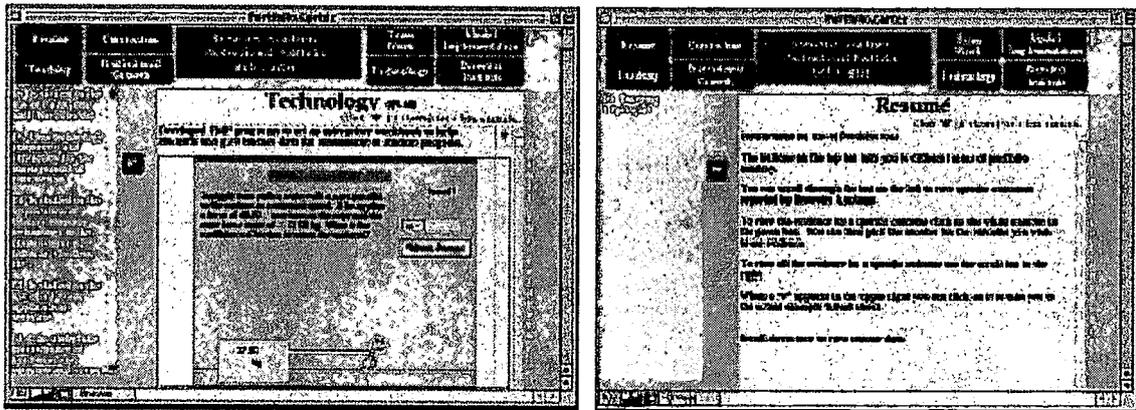School Tools Evaluation System ™

Figure 4: Curriculum Authoring Tools™

Figure 4: Curriculum Authoring Tools™

Curriculum Authoring Tools™
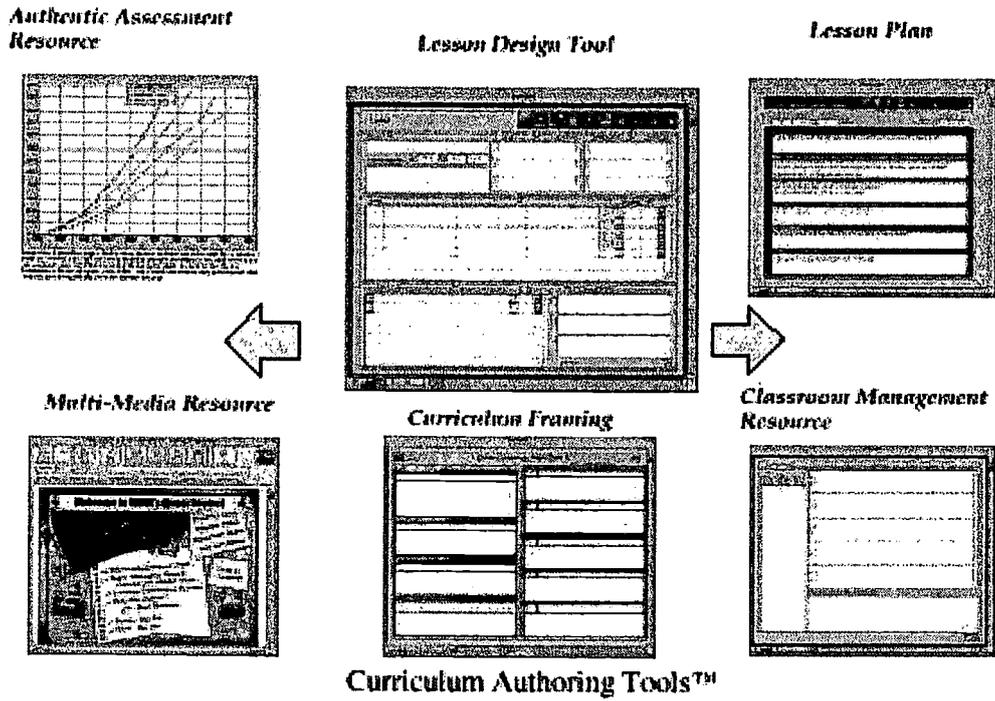
Figure 5: Portfolio

Figure 5: Portfolio

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ERIC ®

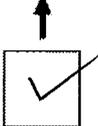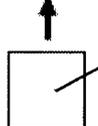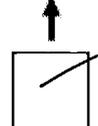# Reproduction Release
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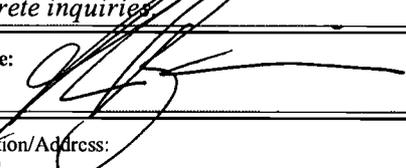
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EFF-088 (Rev. 9/97)