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TEACHER EVALUATION IN DIVERSIFIED TEACHER COMPENSATION SYSTEMS

TheJoyceFoundation

by Angela Baber

The second paper in a series of four

Introduction to the Project

Changing the way teachers are paid to include outcomes, such as student performance, or incentives for teaching in at-risk schools is gaining support in districts and states across the country. The policy process for moving away from the traditional compensation structure is a complex one, however. As is true in all sound policy-making, those designing and seeking to implement **diversified teacher pay systems** would benefit from reviewing what has been learned by both the research and policymaking communities in order to design programs with a better chance at succeeding. With the generous support of the Joyce Foundation, the Education Commission of the States has created a series of resources to provide policymakers and leaders with information on redesigned compensation systems. The resources include:

- ✦ An issue site on the ECS Web site with current resources
- ✦ A redesigned teacher compensation database with information on state-, district- and local-level redesigned compensation programs

- ✦ A series of four issue papers:
 - ◆ *Funding Issues in Diversified Teacher Compensation Systems*
 - ◆ *Teacher Evaluation in Diversified Teacher Compensation Systems*
 - ◆ *Student Performance Assessment in Diversified Teacher Compensation Systems*
 - ◆ *The Use of Diversified Compensation Systems to Address Equitable Teacher Distribution.*

We hope these resources are of value and relevance to policymakers and practitioners who are considering redesigning teacher compensation systems in their states, districts and schools.

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Note: all URLs in this paper are live links.

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INTRODUCTION TO DIVERSIFIED TEACHER COMPENSATION

Teacher quality is one of the greatest determinants of student achievement. It follows, therefore, that ensuring all students are taught by quality teachers is a priority, one that has been the subject of increasing focus with the passage of the No Child Left Behind Act in 2001 and its emphasis on establishing a minimum standard for highly qualified teachers and accountability for student performance. One of the ways in which policymakers are attempting to improve teacher quality and ensure all students are taught by a high-quality teacher is through changes in the system by which teachers are compensated.

Attempts to move teacher compensation systems away from the single salary schedule in which teachers are compensated based on years of service and educational attainment to one more reflective of teacher performance are not new. Earlier attempts at diversification fell into two basic categories: experimental merit pay and career-ladder systems; neither enjoyed uniform success.¹

Experimental merit pay systems were limited in several ways. First, they tended to rely solely on subjective evaluation of the teacher by a school administrator as the means of determining bonus distribution. Additionally, these were zero-sum systems, meaning the number and amount of

bonuses were limited by the lump sum given to a school for this purpose. These limitations contributed to the claim these systems created competition among teachers. Moreover, these programs showed no evidence they improved overall teacher quality or student success.²

Career-ladder systems were also tried as an attempt to eliminate the flat career structure of the teaching profession. These systems provided additional salary and advancement opportunities for teachers who assumed additional roles such as mentoring and administrative responsibilities. While these programs showed promise through some improvement in student achievement, many programs were not able to obtain sustainable funding. However, certain aspects of career-ladder systems exist today within diversified teacher compensation programs. For a more complete discussion of teacher compensation reform efforts please see the ECS issue paper, *Diversifying Teacher Compensation* available at: <http://www.ecs.org/clearinghouse/65/83/6583.pdf>.

Modern reform attempts are more sophisticated in their design and tend to include multiple methods of evaluation, rewards for taking on leadership roles and links to outcome-based assessment such as student performance. Many programs also reflect the goals of the schools, districts and states by offering focused incentives to address high-need or challenging areas. Further, it is important to note that these programs are likely to be most effective as part of a larger system of teacher support.

This is the second in a series of four issue papers that highlight and discuss various aspects of diversified teacher compensation systems.

The four papers in the series are:

- ♦ *Funding Diversified Teacher Compensation Systems*
(<http://www.ecs.org/clearinghouse/74/75/7475.pdf>)
- ♦ *Teacher Evaluation in Diversified Teacher Compensation Systems*
(<http://www.ecs.org/clearinghouse/74/78/7478.pdf>)
- ♦ *Student Performance Assessment in Diversified Teacher Compensation Systems*
(<http://www.ecs.org/clearinghouse/74/76/7476.pdf>)
- ♦ *The Use of Diversified Compensation Systems to Address Equitable Teacher Distribution*
(<http://www.ecs.org/clearinghouse/74/77/7477.pdf>)

These issue papers were created with the generous support of the Joyce Foundation as part of a larger project on redesigned teacher compensation systems. Other resources produced through this project include an issue site on teacher compensation (available through the ECS Education Issues site) and a database containing information on state-, district- and local-level diversified compensation systems (available at: http://www.ecs.org/html/t_comp.htm).

TEACHER EVALUATION IN DIVERSIFIED TEACHER COMPENSATION PROGRAMS

Central to diversified teacher compensation systems is the ability to effectively assess teacher performance with the goal of identifying and rewarding effective teachers. Performance-based pay is typically dependent on the evaluation of student achievement, teacher classroom performance and performance rubrics.³ Knowledge- and skills-based pay is a more recent evolution in evaluating teachers and involves complex teacher evaluation instruments, such as the Danielson Rubric, to assess the attainment and application of new and relevant abilities of individual teachers. School-based performance awards, or group performance incentives, are based on a school or a group of teachers meeting different types of pre-set goals. Career ladders usually combine some or all of the previous forms of evaluating teachers and reward teachers by assessing their level of performance, knowledge and skills, goal attainment, professional development, collaboration, leadership and additional duties by placing them on higher and higher levels of the career ladder which coincide with higher and higher levels of compensation.

Programs that have successfully implemented teacher evaluation systems with proven correlations between teacher evaluation results and student learning, as well as programs that show promise to evolve this link, are of great interest to policymakers in designing alternative evaluation systems for teachers. The **Vaughn Next Century Learning Center, Cincinnati Public Schools Teacher Evaluation System, Teacher Advancement Program (TAP), Minnesota Quality Compensation (Q Comp)** and **Denver Professional Compensation (ProComp)** programs have successful and promising teacher evaluation methodologies and systems. The designers of these programs realized the importance of incorporating most or all of the multiple types of evaluation criteria mentioned above. Performance-based evaluations and techniques of determining a teacher's knowledge and skills rely most heavily on evaluation systems designed to effectively determine an individual teacher's abilities and are the focus of this policy brief.

KNOWLEDGE- AND SKILLS-BASED EVALUATION CRITERIA

Before knowledge- and skills-based evaluation systems can be integrated into a teacher salary structure, the types of knowledge and skills to be assessed need to be identified and clear articulation of how incentives will be tied to these criteria communicated to stakeholders. There are multiple methods of knowledge and skill identification. Some formal methods include the **1996 Charlotte Danielson Framework for Teaching** and the **National Board for Professional Teaching Standards (NBPTS)**. Other more localized methods are implemented through research based on determining local educational goals. Many programs started with existing standards or definitions of good teaching and then adapted evaluation criteria to better suit local objectives. Multiple case studies of knowledge- and skills-based evaluation systems show that adapting existing standards or definitions of good teaching allowed design and implementation in a relatively short amount of time.⁴

Valid and reliable methods of assessment that are recognized as such by teachers are a requirement of successful knowledge and skills based systems. Teacher input is also integral to informing the selection of criteria so teachers feel what they view as important evaluation measures are included. This in turn increases teacher buy-in to the system. Additionally, the more substantial the incentives, the more effective the model is in motivating knowledge and skill acquisition by teachers.⁵ Policymakers need to recognize that a pay structure dependent on the attainment of knowledge and skills requires that quality professional development linked to these knowledge and skills must be made available to the teachers. Not doing so could diminish teacher motivation and compromise the evaluation structure thereby undercutting program objectives.

Programs in This Report:

- ◆ Vaughn Next Century Learning Center
- ◆ Cincinnati Public Schools Teacher Evaluation System
- ◆ Teacher Advancement Program (TAP)
- ◆ Minnesota Quality Compensation (Q Comp)
- ◆ Denver Professional Compensation (ProComp)

Program

Evaluation Frameworks and Rubrics

| | |
|--|--|
| Cincinnati Public Schools (OH) | Adapted from the Danielson Framework for Teaching. |
| Vaughn Next Century Learning Center (CA) | Adapted from the Danielson Framework for Teaching, but not primarily based on external standards. |
| TAP (multi-district and multi-state) | TAP Teaching Skills, Knowledge and Responsibility Standards based on research in educational psychology and cognitive science, as well as best practices in the field including: <ul style="list-style-type: none">◆ Interstate New Teacher Assessment and Support Consortium (INTASC)◆ The National Board for Professional Teacher Standards◆ Massachusetts' Principles for Effective Teaching◆ California's Standards for the Teaching Profession◆ Connecticut's Beginning Educator Support Program, and the New Teacher Center's Developmental Continuum of Teacher Abilities◆ Danielson Framework for Teaching. |
| Denver ProComp (CO) | The Comprehensive Professional Evaluation (CPE) was locally designed but has similarities to existing frameworks. |
| Minnesota Q Comp | Based on the TAP model |

The Danielson Framework for Teaching (1996)

Of the five programs discussed in this policy brief, two evaluation systems are adopted directly from the Danielson model, two rely on the Danielson model and the last has similarities consistent with the Danielson Framework. The Framework originated from Charlotte Danielson's work with Educational Testing Service (ETS) and the National Board for Professional Teaching Standards. The Framework articulates an effective means for communicating the nature of an excellent teacher to students enrolled in teacher education programs, while also suggesting an array of indicators of a successful teaching experience. Danielson argues that excellence in teaching is organized around four domains: Planning and Preparation, Classroom Environment, Instruction and Professional Responsibilities. Each domain consists of several components that comprise superior, assessable professional practices.

Researchers have reported some shortcomings of the Danielson Framework. According to Allen Odden in *Lessons Learned About Standards-Based Teacher Evaluation Systems* (2004), the Danielson system, or at least the versions used by the programs studied in his research, does not address the following key aspects of instruction:

- ◆ Assessments teachers used to measure student learning

- ◆ Feedback teachers gave to students on these assessments
- ◆ How teachers scored student work to district or state student performance standards
- ◆ Teacher reflection on the effectiveness of their instructional practice and how that reflection would lead to changes in instructional practice
- ◆ Data on actual student achievement.

For detailed examples of the Danielson rubric see: [Charlotte Danielson Enhancing Professional Practice: a Framework for Teaching 1996 \(http://www.cesa11.k12.wi.us/Content/ProfessionalDevelopment/Initiatives/PI34/Pages/Danielson%20Rubric.pdf\)](http://www.cesa11.k12.wi.us/Content/ProfessionalDevelopment/Initiatives/PI34/Pages/Danielson%20Rubric.pdf).

Performance- or Standards-Based Evaluation Criteria

Evaluation criteria based on teacher performance include student achievement; classroom observations designed to assess a teacher's abilities; parent, peer and student surveys; teacher interviews; attendance rates; graduation rates; and goals and objectives set independently by the teacher or with guidance from administrators.

Student Achievement

Student achievement is perhaps the most widely used performance-based evaluation component in diversified teacher compensation programs. Although researchers argue that a teacher's impact on measured student achievement should be a substantial factor in evaluating teacher effectiveness, they also warn against relying too heavily on this measure alone.⁶

Student achievement is gauged through the use of standardized state tests, value-added models that attempt to isolate the effect the teacher has on his or her students, post- and pre-tests intended to measure individual student learning gains over the school year, and knowledge benchmarks set by teachers and administrators. This issue paper focuses on those evaluation criteria other than student achievement that are used in evaluating a teacher's performance. For a review of student performance assessment see the third issue paper in this series, [Student Performance Assessment in Diversified Compensation Systems](http://www.ecs.org/LINK) (<http://www.ecs.org/LINK>).

Classroom Observation and Teacher Evaluations

There are many concerns to address before evaluating teachers based on classroom observations. Teachers need to have

a good understanding of the evaluation criteria and how they will be rated and compensated based on the evaluation outcomes. If teachers are involved in the design of evaluation criteria, there is a better chance they will trust the criteria are relevant and objective. Evaluations should be performed at multiple times throughout the year by a team of trained evaluators. This approach is a requirement in each of the five successful and promising programs highlighted in this paper. An appeals process is also an important component of a successful evaluation system, as well as the creation of an action plan for improvement, through professional development or other means, for teachers who receive low scores.

Programs that use multiple evaluators who report similar scores (high inter-rater reliability) report high degrees of teacher trust in the evaluation system. Cincinnati Public Schools, Vaughn Next Century Learning Center, the Teacher Advancement Program (TAP), Denver ProComp and Minnesota Q Comp all base their classroom observations on knowledge- and skills-based rubrics. Additionally, they incorporate other performance-based evaluation criteria such as teacher portfolios, which include units and lesson plans, attendance records, student work, family contact logs and documentation of professional development activities.

| Program | Evaluations per Year | Evaluators | Evaluator Requirements |
|--|--|--|---|
| Cincinnati Public Schools (OH) | 6 | Four evaluations are made by a teacher evaluator from outside the school. Two observations are performed by building administrators. | Teacher evaluators have subject matter and grade-level expertise similar to that of the teacher being evaluated. All evaluators are required to use the same evaluation criteria. |
| Vaughn Next Century Learning Center (CA) | 2 | An administrator and a peer perform the classroom observations. The teacher also performs a self-evaluation. | All evaluators are required to use the same evaluation criteria. |
| TAP (multi-district, multi-state) | 4-6 | Multiple trained and certified evaluators | Evaluators must be trained and certified. |
| Denver ProComp (CO) | 1 or every 3rd year depending on seniority | Peers and Principals | There are three types of evaluation; probationary, non-probationary and special evaluations. All evaluators are required to use the same evaluation criteria. |
| Minnesota Q Comp | Multiple | Peers and Principals | Evaluators must be trained. Peer reviews are performed by master and mentor teachers. All evaluators are required to use the same evaluation criteria. |

PROVEN PROGRAM EXAMPLES

Successfully Implemented Teacher Evaluation Systems with Proven Correlations between Teacher Evaluation Results and Student Learning

Cincinnati Public Schools Teacher Evaluation System (TES)

Cincinnati Public Schools implemented a comprehensive system for evaluating teachers known as the Teacher Evaluation System (TES). This evaluation method is used on an annual basis to determine teacher movement on a traditional salary schedule. The original plan was to have two phases of implementation; the second phase intended to tie compensation to a teacher's TES ranking. However, in May 2002, the teachers' union voted by 96.3% – 1,892 to 73 – against the second phase of this plan.⁷ Although the performance-based pay component was not passed in 2002, research shows a link between TES scores and student achievement, making the Cincinnati program a valuable case study for policymakers interested in teacher evaluation systems connected to student learning gains.⁸

Development of the Knowledge- and Skills-Based Teacher Evaluation System in Cincinnati

The Teacher Evaluation Committee, one of three committees established to form a design structure for the Cincinnati model, was responsible for the design of a new teacher evaluation system. The three committees, referred to as The Committee of the Whole, were comprised of 24 union representatives, 12 administrative representatives which included seven teachers certified by the National Board for Professional Teaching Standards, a National Board Member and several teachers who had completed training to be observers for the Praxis III assessment program. After studying multiple teaching standards models (National Board for Professional Teaching Standards, the Interstate New Teacher Assessment and Support Consortium, the Praxis III assessment and the Danielson Framework for Teaching) the committee chose to use the Danielson Framework for Teaching to define quality teaching because it was more closely aligned with what good teaching meant for Cincinnati.⁹ In modifying these teaching standards to better fit the needs of Cincinnati Public Schools, the committee addressed appropriate definitions of domains and standards, shortcomings of the Danielson model and how to weight standards.

For a detailed account of the planning process in Cincinnati see the Consortium for Policy Research in Education (CPRE) research paper, [How Cincinnati Developed a Knowledge- and Skills-Based Salary Structure](http://www.wcer.wisc.edu/cpre/papers/Cincinnati%20KSBP%203-00.pdf) (<http://www.wcer.wisc.edu/cpre/papers/Cincinnati%20KSBP%203-00.pdf>).

Teacher Evaluation Component

The Teacher Evaluation System (TES) in Cincinnati is based on 16 standards divided into four domains. A teacher's performance is measured against each of these standards. The standards are aggregated into four scores, one for each of the domains. Teachers can earn from three to 24 points in each of the following:

- ◆ Planning and Preparing for Student Learning
- ◆ Creating an Environment for Learning
- ◆ Teaching for Learning
- ◆ Professionalism.

There are five teaching levels based on a teacher's evaluation scores: Apprentice, Novice, Career, Advanced and Accomplished Teacher. Increases in salary are associated with each of these levels and teachers move up the salary schedule through evaluation of TES scores. The first two levels, Apprentice and Novice, have a time limit associated with them. A teacher must progress from one category to the next within a specified period of time to continue his/her contract. If a teacher receives an evaluation that would place him or her in a lower category, the teacher's salary increase is withheld and he or she must undergo a second comprehensive evaluation the following year.

For two of the TES domains – creating an environment for learning and teaching for learning – evaluations are performed six times a year. Four of these evaluations are performed by a teacher from another school with equivalent subject-matter and grade-level expertise to the teacher being evaluated. The remaining two evaluations are performed by school administrators, either the principal or vice-principal of the school. Final summative ratings for these two domains are made from these six observations. Teachers are rated on the remaining domains – planning for student learning and professionalism – by administrators. Portfolios including units and lesson plans, attendance records, student work, family contact logs, and documentation of professional development activities are used to rate teachers on these two domains.

For more information on the Cincinnati TES domains and standards see the [CPS Standards and Domains Rubric](http://www.cps-k12.org/employment/tchreval/stndsrubrics.pdf) (<http://www.cps-k12.org/employment/tchreval/stndsrubrics.pdf>).

The Relationship between Teacher Performance Evaluation Scores and Student Achievement

Research shows the teacher assessment system in Cincinnati is able to identify which teachers had students with higher-than-expected levels of achievement. These results support using the TES for teacher evaluation and pay differentiation, as well as using teacher evaluation scores to determine teaching practices that affect student learning. For a detailed account of the research supporting the correlation between TES scores and student achievement, see the Consortium for Policy Research in Education (CPRE) research article, **The Relationship Between Standards-Based Teacher Evaluation Scores and Student Achievement: Replication and Extension at Three Sites** (http://www.wcer.wisc.edu/cpre/papers/3site_long_TE_SA_AERA04TE.pdf).

Vaughn Next Century Learning Center

Vaughn Next Century Learning Center, located in Pacoima, is a large urban public school within the Los Angeles Unified School District (LAUSD). Since the early 1970's, low student achievement had been a pattern in this school. In 1993 Vaughn became the first conversion charter school in the nation and was authorized by LAUSD. The charter was renewed in 1998 and again in 2003. Vaughn is now a full-service, community-based PK-12 charter school serving almost 2,000 neighborhood children, almost 100% of whom are eligible for free or reduced lunch and over 50% of whom are English language learners. As a result of their efforts, Vaughn was awarded the California Distinguished Schools Award in 1996 and the National Blue Ribbon Schools Award in 1997. In addition to diversifying teacher pay based on alternative evaluation methods, Vaughn also defines teaching environment, teacher training, and professional growth and teacher leadership program components.

In addition to a base pay and extra compensation for certification and advance degrees, Vaughn pays teachers based on knowledge and skills; contingency-based awards (for achieving certain goals in the areas of student attendance, discipline, parental involvement and for working in teams); schoolwide student achievement bonuses; expertise compensation (teachers in leadership roles including grade-level chairs, committee chairs, peer reviewers, mentors, faculty representatives, etc.); and gain-sharing (unused sick days can accrue for monetary reimbursement). Added benefits include a long-term disability insurance policy for every teacher that provides 60% of their full pay until age 65. In addition, an account with \$500,000 in the Los Angeles

Teachers' Credit Union was established to guarantee health benefits after retirement.

Development of the Knowledge-, Skills- and Performance-Based Teacher Evaluation System for Vaughn

The driving force for restructuring the Vaughn school was to increase student achievement. Professional development programs are mandatory, but teacher choice is also a part of the process, with outside experts and dedicated administration support time for training, evaluation and professional development for their assigned staff. Vaughn has a curriculum committee responsible for planning staff development. Effective with the 1999-2000 school year all teachers are evaluated through a process based on knowledge and skills performance assessments. This evaluation includes a self evaluation by the employee using the same evaluation tool the peer reviewer and administrator use; several classroom observations each semester; and consideration of relevant staff development training taken by the employee.

The Consortium for Policy Research in Education (CPRE) conducted surveys and site visits and used the information gathered to report on the first, second and third year of the knowledge- and skills-based pay program at Vaughn. During the first year Vaughn addressed concerns about the heavy burden on evaluators conducting three annual teacher observations that may have been too long, sometimes spanning a full day. Although the first year was viewed as a difficult year, the primary reason was not due to the implementation of a new knowledge- and skills-based pay plan. Tension and friction between new and veteran staff developed. New staff were required to participate in the redesigned compensation system whereas a plan for expanding the new salary structure to incorporate veteran teachers was not yet implemented. New teachers felt they were working harder than the senior staff for less compensation. Veteran teachers were skeptical about plans to implement a similar knowledge- and skills-based pay system that would apply to all staff.

The second year at Vaughn saw the development of the expanded pay structure to teachers and administrators. One of the major challenges in developing new pay principles for teachers was that teachers near the top of the traditional salary schedule could be seriously disadvantaged by the new pay structure. Another challenge involved was deciding the relative value of these bonuses, because a set bonus would always be a higher percentage of a starting teacher's salary than an experienced teacher's salary. This led program de-

signers to implement a three-tiered knowledge, skills and/or proficiency system based, in part, on seniority. A commitment to develop rubrics was made to address concerns regarding the subjectivity of evaluators and evaluation scores for teachers.

CPRE reported that the third year of the knowledge- and skills-based pay program at Vaughn saw an improved sense of trust in the evaluation system and an overall positive climate. By this time the basic rubric was constructed and debugged, and the majority of staff had a good understanding of the evaluation system. A committee was created to guide ongoing work on the evaluation system; the time demand the system placed on evaluators was addressed; and previous teacher requests for more feedback were met by the creation of a Peer Assistance Review (PAR) committee. The creation of the PAR committee was reported as the most important change for year three. Some of the more significant issues that the PAR dealt with in year three include the following:

- ◆ An appeals process
- ◆ How to evaluate team teachers who do not typically teach all content areas
- ◆ How to evaluate teachers on technology when the computers in their classrooms are not working
- ◆ The establishment of a pre- and post-evaluation conference system
- ◆ Feedback and other opportunities for professional growth
- ◆ Inter-rater reliability among evaluators.

For more information on the development of the Vaughn knowledge and skills-based evaluation system see the Consortium for Policy Research in Education (CPRE) paper, [How Vaughn Next Century Learning Center Developed a Knowledge- and Skills-Based Program](http://www.wcer.wisc.edu/cpre/papers/Vaughn%20KSBP%208-01.pdf) (<http://www.wcer.wisc.edu/cpre/papers/Vaughn%20KSBP%208-01.pdf>).

Teacher Evaluation Component

The Peer Assistance and Review System is the current system of evaluation and takes place three times per year. Teachers reflect on their own performance and rate themselves using established teaching standards and scoring rubrics. The scoring rubric was adopted from the Danielson Framework for teaching and selected peer reviewers (peers from Vaughn and/or objective outside peer reviewers) observe their colleagues and provide feedback as well as assistance. Instructional coordinators also conduct classroom visits and conference with teachers on an ongoing basis. Scoring from self, peer and instructional coordinators are averaged.

The evaluation system recognizes three levels of teachers – Apprentice, Level II and Level III – that are evaluated using a four-domain, multiple-component scoring rubric. There are two assistance visitations and two formal evaluations per year. During the formal evaluations, Apprentice-level teachers are scored on apprentice skill areas only. Level II and III teachers are scored on all four of the domains. Teachers are scored by a PAR member and an administrator, and are responsible for performing a self evaluation based on the same criteria. During the assistance visitation, a checklist is used as feedback for the teacher. The peer evaluator has a pre-visit conference with the peer teacher at the beginning of the year, and after each assistance visit the peer evaluator meets with the teacher to discuss the assistance checklist. Only the administrator, however, discusses the formal evaluation with the teacher.

For more information on the Vaughn teacher evaluation system components and for the full scoring rubric see [Vaughn Teacher Quality and Professional Growth](http://vaughncharter.com/s2/images/stories/miscfiles/PeerReview.pdf) (<http://vaughncharter.com/s2/images/stories/miscfiles/PeerReview.pdf>).

The Relationship between Teacher Performance Evaluation Scores and Student Achievement

Hierarchical Linear Modeling (HLM) was used to isolate classroom effects in order to ascertain the teacher's effect on student learning. According to a 2004 article by Alix Gallagher, results indicate a strong, positive and statistically significant relationship between teacher evaluation scores and student achievement in reading; a composite measure of teacher and student performance and a positive, although not statistically significant, relationship in mathematics.¹⁰ Additionally, Vaughn has met the growth target established by the California Academic Performance Index (API) for seven years running. API increased by 263 points from 1999 to 2006.¹¹

For a detailed account of the research supporting the correlation between Vaughn TES scores and student achievement, see the Consortium for Policy Research in Education (CPRE) research article, [The Relationship Between Standards-Based Teacher Evaluation Scores and Student Achievement: Replication and Extension at Three Sites](http://www.wcer.wisc.edu/cpre/papers/3site_long_TE_SA_AERA04TE.pdf) (http://www.wcer.wisc.edu/cpre/papers/3site_long_TE_SA_AERA04TE.pdf).

Teacher Advancement Program (TAP)

The Teacher Advancement Program (TAP) was developed in 1998 and refined over the years based upon scientific research and supported by expert practice in the field. The TAP is funded by the Milken Family Foundation and is intended to attract, retain, develop and motivate talented people in the teaching profession. There are currently TAP programs in 32 districts across 13 states with charter school locations in 10 districts across eight states. TAP is based on the following four elements:

- ◆ Multiple career paths
- ◆ Ongoing, applied professional growth
- ◆ Instructionally focused accountability
- ◆ Performance-based compensation.

Teachers are compensated according to their roles and responsibilities, their performance in the classroom and the performance of their students. Districts are also being encouraged to offer competitive salaries to teachers in "hard-to-staff" subjects and schools.¹²

Development of the TAP Teacher Evaluation System

TAP teaching skills, knowledge and responsibility performance standards were developed based on education psychology research focusing on learning and instruction. Instructional guidelines and standards developed by numerous national and state teacher standards organizations were reviewed, and from this review a set of standards for teacher accountability was developed. The work reviewed included guidelines and standards developed by the Interstate New Teacher Assessment and Support Consortium (INTASC), the National Board for Professional Teacher Standards, Massachusetts' Principles for Effective Teaching, California's Standards for the Teaching Profession, Connecticut's Beginning Educator Support Program, and the New Teacher Center's Developmental Continuum of Teacher Abilities. The work of Danielson (1996) served as a valuable resource for defining the teaching competencies at each level of teacher performance.

TAP defined the skills of a quality teacher and determined how they are demonstrated at different levels of performance in order to measure a teacher's skills, knowledge and responsibilities. The TAP performance standards define the expected teaching skills, knowledge and responsibilities for each level teacher in the career path. The teacher responsibility rubrics were designed based on research in educational psychology and cognitive science, as well as best practices in the field.¹³ These accountability systems include: Rochester Career in Teaching Program (NY), Douglas County Teacher's Performance Pay Plan (CO), Vaughn Next Century Charter

School Performance Pay Plan (CA), and Rolla School District Professional Based Teacher Evaluation (MO).

Teacher Evaluation Component

TAP has a comprehensive system for teacher evaluation based on a combination of classroom observations and student achievement gains. A teacher's performance is measured against the TAP teaching skills, knowledge and responsibility standards. The standards involve teaching processes and outcomes, and are the basis for classroom observation evaluations. Teachers are evaluated four to six times each year by multiple trained and certified evaluators.¹⁴

Results

Many TAP locations report increased student achievement as well as higher rates of teacher retention. In 2002, three of four schools in Arizona using performance-pay plans under TAP performed significantly better than control schools, with 14- to 46-point percentile rank differences. Results in 2003 for South Carolina reported four of the six TAP schools performed significantly better in math than the control schools with 14- to 27-point percentile rank differences.

TAP was piloted in Minneapolis and Waseca, Minnesota, where promising results were reported based on preliminary data such as increased state and local student assessment results. Specifically, after the first year of TAP, Andersen Open, a K-8 school in Minneapolis, increased the number of 8th graders passing the Basic Skills Test in reading from 39% in 2004 to 62% in 2005.¹⁵ Student achievement is thought to be improved because the teachers were provided with three-pronged job-embedded professional development:

1. Ongoing feedback and support from mentors and instructional coaches
2. Time during the school day to collaborate in professional development teams
3. A school improvement goal that focused on relevant and meaningful instructional strategies demonstrated by mentors and instructional coaches who had field tested the strategy with students at the school.

The successes of the Minnesota TAP program prompted policymakers to establish a statewide diversified teacher compensation program based on the TAP program principles and components. This program, Minnesota Q Comp, is also been highlighted in this brief issue paper as a promising teacher evaluation system.

For more information on the Teacher Advancement Program, visit the [National Institute for Excellence in Teaching \(NIET\)](http://www.talentedteachers.org/tap.taf) site (<http://www.talentedteachers.org/tap.taf>).

PROMISING PROGRAM EXAMPLES

Denver Professional Compensation Program (ProComp)

Denver ProComp is the evolution of a pilot program initiated in 1999 through a partnership between the Denver Classroom Teachers Association and Denver Public Schools. A study of this pilot program was conducted by the Community Training and Assistance Center of Boston. One result of the initial findings was that a new teacher compensation agreement could not be based on student objectives alone. The ProComp system is a results-based pay program that uses multiple criteria to assess teachers' performance, with teachers receiving increases in pay and bonuses for documented results. A new teacher evaluation system was field-tested during the 2004-05 school year. The current ProComp salary system went into effect in January 2006

after Denver voters approved a \$25 million mill levy to fund the compensation plan.

Denver ProComp provides incentives to teachers based on nine criteria divided into four categories. Teachers receive base-pay salary increases and bonuses and are eligible to receive tuition reimbursement for specific course work if they meet the evaluation criteria specified for each objective.

Development of a Teacher Evaluation System for ProComp

The new Comprehensive Professional Evaluation (CPE) system was designed collaboratively by teachers, administrators, specialists and parent representatives. The ultimate goal in this evaluation process is to improve student achievement by defining quality instruction and increasing the use of effective, research-based practices in a collaborative process.

Knowledge and Skills

| | |
|--|------------------------------|
| Professional development unit | 2% salary increase |
| Graduate degree/national board certificate | 9% salary increase |
| Course work | \$1000 tuition reimbursement |

Professional Evaluation

| | |
|-----------------------|--------------------|
| Successful evaluation | 3% salary increase |
|-----------------------|--------------------|

Student Growth

| | |
|---|--------------------|
| Teachers/specialists set two annual objectives | 1% salary increase |
| Teacher only meets one objective | 1% index bonus |
| Meet CSAP accepted growth | 3% salary increase |
| Distinguished school (student growth data, school climate, attendance and graduation rates) | 2% index bonus |

Market Incentives

| | |
|--|----------------|
| Hard-to-staff | 3% index bonus |
| Hard-to-serve (% free/reduced lunches) | 3% index bonus |

Teacher Evaluation Standards¹⁶ Distinct Steps for the Formal Evaluation¹⁷

- ◆ Instruction
- ◆ Assessment
- ◆ Curriculum and Planning
- ◆ Learning Environment
- ◆ Professional Responsibilities.

- ◆ Orientation and notification of evaluation
- ◆ Pre-observation conference with the evaluator
- ◆ Formal observation
- ◆ Post-observation conference
- ◆ Mid-evaluation structured conference – educator provides the evaluator with records of teaching/service that address all five standards
- ◆ Additional observation (probationary teachers)
- ◆ Comprehensive evaluation – educator completes an action plan to be shared with the evaluator at the final meeting to sign documents.

Teacher Evaluation Component

There are three types of evaluation; probationary, non-probationary and special evaluations. Probationary evaluations are conducted annually during the educator's probationary employment; non-probationary evaluations are conducted every three years for teachers who have successfully completed their probationary period; and special evaluations are conducted when a supervisor determines that a teacher requires assistance in a non-evaluation year.

Teachers are evaluated on five standards. Each standard has multiple criteria with a number of indicators that can be used to evaluate whether the educator is meeting the standards. A criterion for assessment, for example, is that the educator uses and interprets a variety of assessments to monitor and evaluate students. Criteria for professional responsibilities include collaborating with identified teams on expectations, strategies and use of data; engaging families in the learning process; and demonstrating integrity, and professional and ethical standards.

Pay raises are based on a performance rating of "satisfactory." Evaluators use the performance evaluation process to identify how well educators are meeting the five performance standards and corresponding criteria. The ratings include: Exceeding (E), Meeting (M), Developing (D) and Not Meeting (NM) expectations. A rating is given for each performance standard and each criterion on the comprehensive performance form. Evaluators rate a teacher's comprehensive performance as "unsatisfactory" if he or she determines a "Not Meeting" expectation for one or more performance standards or for a total of five or more criteria across all performance standards.

For more information on the [Denver ProComp](#) program, visit the ProComp site: <http://denverprocomp.org>.

Quality Compensation (Q Comp)

Quality Compensation, or Q Comp, is a performance-pay program adopted by the state of Minnesota. Performance pay is not a requirement in Minnesota; rather, districts apply to participate in Q Comp. Since the program was enacted by the Minnesota Legislature in July 2005, 22 Minnesota school districts were approved for Q Comp and received funding for implementation, and another 134 districts indicated that they plan to submit an application for the 2006-07 or 2007-08 school years.¹⁸

The Q Comp program is based on the Teacher Advancement Program (TAP) and has five components:

- ◆ Career ladders for teachers
- ◆ Job-embedded professional development
- ◆ Instructional observations and standards-based assessments
- ◆ Measures to determine student growth
- ◆ Alternative teacher compensation or performance pay.

Development of Instructional Observation and Standards-Based Assessment Program

The Minnesota Department of Education lists the basic steps that districts need to take in order to create a good instructional observation and standards-based assessment program under Q Comp. Evaluation standards are ultimately a district-level decision, but for a district plan to be approved for funding they must address the steps listed in the table on the next page.

Basic Steps Needed to Create a Good Instructional Observation and Standards-based Assessment Program under Q Comp¹⁹

1. Identify the standards by which the evaluation system is based (e.g. The Minnesota Standards of Effective Practice)
 - a. This is recommended by the Minnesota Department of Education so the teacher evaluation program and the requirements for initial and continuing licensure are integrated and little additional bureaucracy or paperwork are added to the district.
 - b. The teacher evaluation program should have processes and artifacts that are directly linked to the ongoing professional development teachers are expected to have to maintain their license.
2. Develop criteria for each standard that includes a description of the specific expectations for each performance level
 - a. The standards need to be converted into a workable document that is easy for both the teacher and the evaluator to understand).
3. Determine the categories for a rubric of performance levels for each standard.
4. Fill the rubric with descriptions of each performance level for each criterion
 - a. This should include the type of evidence necessary to prove that this is the level being demonstrated by the teacher's performance during the evaluation.
5. Select and train the evaluation team
 - a. Q Comp requires that multiple evaluations be carried out by a team (multiple evaluators) trained in using evidence-based observations aligned with professional teaching standards.

Teacher Evaluation Component

Under Q Comp every teacher must be evaluated multiple times, every year. The performance-pay system must involve a comprehensive standards-based professional review system for teachers that utilizes input from a variety of sources. The review system must be based on scientifically based education research. Peer reviewers, such as master and mentor teachers, along with principals, will evaluate each teacher's performance at several points in time during the school year. The evaluations must be one consideration for teacher bonuses.²⁰

A locally selected evaluation team develops a common set of skills to be measured and measures them with a common rating scale. Adopted from the TAP evaluation system, this system also relies on principles from the Interstate New Teacher Assessment and Support Consortium, the National Board for Professional Teacher Standards, Massachusetts' Principles for Effective Teaching, California's Standards for the Teaching Profession, Connecticut's Beginning Educator Support Program, the New Teacher Center's Developmental Continuum of Teacher Abilities, and the Danielson Framework for Teachers.

In order to assure fairness, all evaluators are required to use the same evaluation criteria. There are many ways teams can be structured at each of the various school levels, including: interdisciplinary, inter-grade level, departmental, grade level, etc. Q Comp guidelines establish that teams should include specialists in the areas of special education, elective courses (industrial technology, home economics, foreign language, band, choir, music, etc.), school nurses, administrators and counselors.

For more information on the Minnesota Q Comp programs visit the [Minnesota Department of Education Q Comp site \(http://children.state.mn.us/mde/Teacher_Support/QComp/Program_Components/index.html\)](http://children.state.mn.us/mde/Teacher_Support/QComp/Program_Components/index.html).

CONCLUSION

There are many factors to consider in planning, designing and implementing a teacher evaluation system. During the design process policymakers need to address the issue of data systems and the integration of the data systems used to track students, teachers and classes with the existing human resources system so the evaluation and compensation of teachers is technically possible.

A collaborative planning process has increased teacher buy-in in many programs, and the need to base evaluations on multiple observations by multiple trained evaluators is also reported to increase teachers' beliefs in the fairness of the evaluation process. The definition of a good teacher is dependent on context. A highly effective teacher at Vaughn might not be as effective at another school. For this reason it is important for policymakers and program designers to define what knowledge, skills, experience and qualities are needed to cultivate quality teachers specific to schools and regions. A targeted professional development program needs to be in place and should increase the identified abilities a teacher needs to be considered effective. This program needs to be funded and accessible in order to allow for teachers to develop abilities that will result in improvements in student learning.

The process of planning, designing, implementing, integrating, reviewing and revamping a teacher evaluation system is an arduous task, fraught with challenges. Time, dedication, a shared vision and willingness to collaborate with the goal of improved student achievement are necessary to craft an effective evaluation system. The process of implementing teacher evaluation systems may seem daunting; however, research has linked teacher evaluation scores from these systems to increases in student achievement across multiple programs. Components of successful programs, as well as lessons learned from these programs, inform the recommendations to policymakers outlined below. Redesigned teacher evaluation systems – if implemented with sincere consideration and caution – can and do fulfill the ultimate purpose of every teacher, school, administrator and education policymaker – *to improve student achievement*.



Policy Recommendations

1. Pre-Implementation

- ◆ Consider what the data system needs are to track students, teachers and classes, and how those data systems will need to be integrated into the existing human resources system
- ◆ For consistency and comparability, make sure student assessments are aligned along grade-levels
- ◆ Be prepared to determine a set of teacher standards that describes in considerable detail what teachers need to know and be able to do
- ◆ Adapting existing standards or definitions of good teaching can save time.

2. Designing the Evaluation System

- ◆ Involve professionals, stakeholders and practitioners in the design of the teacher evaluation system
- ◆ Determine the multiple forms of data that will need to be collected and have a plan of action with dedicated staff time to collect these data
- ◆ Utilize evaluation criteria from a variety of sources
- ◆ Decide how to weight evaluation standards and communicate standard weights to all stakeholders
- ◆ Define multiple teaching levels to differentiate between new and veteran teachers
- ◆ Use student achievement as a factor in evaluating teachers, but not as the only factor.

3. Evaluation and Evaluator Criteria

- ◆ Develop a related set of scoring rubrics that provide guidance to evaluators on how to score the data to various performance levels
- ◆ Train evaluators to be responsible for observing teachers in the classroom
- ◆ Have a system for averaging the multiple scores of the different evaluators to determine a teacher's instructional performance
- ◆ Implement multiple evaluations per year performed by more than one trained evaluator.

4. Incentives

- ◆ Decide how performance evaluation results will be attached to incentives
- ◆ The more substantial the incentive, the more effective the model is in motivating knowledge and skill acquisition by teachers
- ◆ Recognize that set bonus are a higher percentage of a starting teacher's salary than of an experienced teacher's salary.

5. Teacher Support and Growth

- ◆ Provide evaluators' feedback to teachers on evaluation outcomes
- ◆ Link targeted professional development to knowledge and skills needed to receive incentives
- ◆ Incorporate an appeals process for teachers
- ◆ Have an action plan for assisting teachers that receive low scores
- ◆ Provide teachers with time during the school day to collaborate in professional development teams.

6. Program Review and Refinement

- ◆ Track evaluation scores to ensure inter-rater reliability
- ◆ Have a review process in place to gauge teacher and administrator perceptions of the evaluation system and revise the system as necessary
- ◆ Address concerns about the evaluation system through a committee to guide ongoing work on the evaluation system.

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