Building It Together: The Design and Implementation of Hillsborough County Public Schools' Teacher Evaluation System

By Rachel Curtis

March 2012





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About the Author

Rachel Curtis works with school systems, foundations, and education policy organizations on teacher and principal human capital issues. In 2006, as assistant superintendent of the Boston Public Schools, she developed the system's teaching standards and aligned new teacher induction support and teacher evaluation to them. Her publications include the books *Teaching Talent*, *Strategy in Action*, and *The Skillful Leader II*.

Overview

n 2010-11, the Hillsborough County (FL) Public Schools (Hillsborough, HCPS) launched a Lteacher-evaluation system that has attracted attention from educators and policy makers across the country. All the stars aligned to make this new system possible. Five years of experience measuring teachers' contributions to student achievement gains and implementing pay-forperformance through the state's Merit Award Program (MAP) helped Hillsborough build the necessary infrastructure. Two, five-year Teacher Incentive Fund (TIF) grants (awarded in 2007 and 2010) enabled the district to implement payfor-performance on a broad scale and built a familiarity with the concept among teachers. Then, late in 2009, the Bill & Melinda Gates Foundation awarded Hillsborough a \$100 million Empowering Effective Teachers (EET) grant to support educator effectiveness. The grant focuses on implementation of a high-quality induction program for new teachers, enhanced professional development, new teacher and principal evaluation systems, a revamping of the system's compensation plan, and incentives for teachers to work with the highestneeds students.

The new evaluation system also benefited from a deep collaboration between the school system and the Hillsborough Classroom Teachers Association (CTA). Together, the district and the union set the conditions for the early experiments in pay-forperformance, jumping at the chance to begin to figure out this complicated issue and leverage \$10 million in state funds to reward effective teacher performance. The union president was one of the five members – along with the superintendent and school board chairman - of the work group that wrote the Empowering Effective Teachers grant. And teachers sit side-by-side with school and system administrators designing, supporting, and tracking the implementation of each element of the evaluation system.

The system consists of two main components: observations of instruction and teachers' value-added scores, based on student test results. The observations are based on a framework and rubric adapted from a commonly used framework developed by the researcher Charlotte Danielson. Teachers engage in a pre-observation conference, an observation, and a post-observation conference, at least three times a year, with their principal and either a

peer evaluator or a mentor. Close to 44.000 observations were conducted in school year 2010-11. ln the same year, Hillsborough generated a value-added score for every teacher using a mix of state assessment data. end-of semester and course

DISTRICT FACTS	
SCHOOLS	254
TEACHERS	12,464
STUDENTS	194,737
STUDENT DEMOGRAPH	ıcs
ASIAN	3.4%
BLACK	21.6%
HISPANIC	29.4%
WHITE	40.3%
MULTI-ETHNIC/OTHER	5%
ELIGIBLE FOR FREE OR REDUCED PRICE LUNCH	57%

exams, and other assessments. Teachers received their first value-added score in the fall of 2011. Refinements will be made to both the observation rubric and process, as well as to the value-added system, based on learnings from the first year of implementation, and all teachers will receive a final evaluation rating, in the fall of 2012, based on the prior year's observation score and two years of value-added data.

In the 2013-14 school year, the fourth year of the new evaluation system, Hillsborough will implement a new, performance-based, career-ladder compensation system for teachers. By then the district will have three years of observation and value-added data for each teacher. All teachers hired after the 2010 contract was ratified (about 40% of the workforce) are required to be enrolled in the new compensation system; veteran teachers have the option of enrolling in the new system or remaining in the previous system.

While systems like Hillsborough's have sparked heated disagreements in other districts, the HCPS system has been facilitated by the district's deep commitment to communication, collaboration, cross-functional work, and continuous improvement. HCPS brought to this work a belief that there is no such thing as too much communication. It has developed a rich array of strategies and media for communicating about this initiative and collecting feedback. Cross-functional workgroups bring together teachers, principals, central office staff, and district leaders to guide the design and implementation of each key element of the initiative. Central office staff work cross-functionally to ensure all key stakeholders and issues are considered. And all

of this work is monitored closely and regularly to identify problems and develop solutions as quickly as possible.

The culture that undergirds this work is captured in Superintendent MaryEllen Elia's comment that "you don't get excellence by destroying people," a belief that is reflected in how the system does business. The focus of the teacher-evaluation work in Hillsborough is to help educators develop and improve their practice. And the way that work is approached has a similar focus on development and improvement. The prevailing attitude among people involved in executing the new evaluation system can be summed up as a commitment to do the best they know how to do, learn from it, see where there are problems, make mid-course corrections and keep improving. There is a deep well of trust among adults in HCPS and a belief that the system will address whatever issues come up. The new evaluation system builds on and aims to strengthen Hillsborough's conviction that the system and its educators are good and will keep getting better.

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Background

illsborough's history gives it a strong advantage in tackling some of the thorniest issues that are likely to surface in the development of a new teacher evaluation system. With more than twenty years of experience assessing student learning system-wide in all content areas and four years implementing pay-for-performance, HCPS has a critical infrastructure in place to support this next generation of work.

Since 1998, the state of Florida has had an extensive student assessment system, the Florida Comprehensive Assessment Test (FCAT), which is administered in grades 3 through 11 in mathematics, reading, writing, and science. In addition, Hillsborough developed its own end-of-semester and course exams for most of the secondary courses offered. These multiple-choice, standardized tests provide the system with measures to assess teacher impact on student achievement in grades and subjects not covered by the FCAT. Since 2007, the system has been using these tests so that HCPS could participate in Florida's Merit Award Program (MAP), a statewide, pay-for-performance initiative. While they recognized problems with the program's design, the district and teachers' union jointly decided to participate in MAP in order to tap the \$10 million in additional pay the program could provide to Hillsborough teachers.

To implement the system, Hillsborough identified tests that would yield student growth scores for every course taught, then matched students to teachers who would be assigned scores. These efforts enabled the district to address the thorny scheduling issues in schools that make it difficult to generate a student growth score for a teacher. Finally, the district developed value tables for every grade and subject area that indicated the levels of growth required to be eligible for MAP.

Despite this preparation, the initial implementation of MAP was "insane," as Superintendent MaryEllen Elia bluntly put it. The first year of implementation surfaced all of the problems that are now commonly associated with measuring teacher value-added: matching students to teachers, ensuring metrics are fair, dealing with elementary students who are not attached to a single teacher, and educating teachers about the whole value-added concept.

The experience with MAP taught Hillsborough about the importance of clear communication with teachers. When the first student growth scores came out, they were a mess. There were mistakes in the calculations of many teachers' scores and teachers were confused and frustrated. As a stopgap measure, HCPS quickly developed a phone bank to respond to the onslaught of teacher calls. It then reached out to the teachers who were most vocal about the problems with the program and invited them to serve on a panel that was charged with fixing them. By the following year, many of the kinks in the system had been ironed out and the system was using its federal TIF grant to provide additional bonuses to high-performing teachers who worked in high-poverty schools.

While the journey was bumpy, the system gained a lot from the experiment that positioned it well for the work of 2010-11. Teachers saw the system respond to their concerns and address problems, building confidence in the system's commitment and capacity to follow through on its promises. Teachers were engaged in creating solutions. Teachers saw the system work hard and collaborate closely with the union, as Superintendent Elia explained, to "put more money in teachers' pockets." All of this built teachers' trust in the system. At the same time, the district learned about the importance of clear, frequent communication with teachers about any changes that affect them. The credibility earned

through addressing the MAP fiasco and the hardearned lessons made Hillsborough much smarter about how to approach the design and implementation of its new evaluation system.

Hillsborough's experience with MAP and TIF, the infrastructure it developed as a result, and the longstanding strong collaboration it enjoyed with the teachers union attracted the attention of the Gates Foundation, which was preparing to make a substantial investment in teacher evaluation and development. The foundation in 2009 invited HCPS to apply for a large, multi-year grant that is one of the cornerstones of the foundation's educator effectiveness efforts. A team consisting of the superinten-

dent, school board chair, union president and key district leaders engaged in an intensive process of assessing the system's educator effectiveness work and mapping out a vision and strategy to build a robust system of teacher support and accountability, career pathways, and compensation. As part of this process, the system surveyed teachers to assess their readiness for the kind of change HCPS was proposing. The response from teachers was hopeful and in 2009 Hillsborough was awarded a sevenyear, \$100 million grant to bring its vision to life – one of only four systems in the country awarded a Gates Educator Effectiveness grant.



Evaluation

he evaluation design that Hillsborough developed consists of three components: observations by peer evaluator or mentor¹ (30 percent of a teacher's score), observations by the principal (30 percent), and value-added data (40 percent). The district chose to use multiple measures to come up with scores for each component: two evaluators for each observation, and several achievement measures contributing to value-added metrics wherever possible. The district chose Charlotte Danielson's *Domains of Effective Teaching* to guide observations, using a four-point rubric to assess teaching practice. (See Appendix A for a listing of the Danielson Domains.)

Observation

Every teacher in HCPS was observed at least three times in school year (SY) 2010-11. The chart below

illustrates how the number of observations (all formal with pre- and post-observation conferences) required varies based on a teacher's performance level and shows the distribution of teachers across performance levels. Principals and mentors evaluate all first-year teachers, while peers serve as the second evaluator for experienced teachers. Mentors and peers are teachers on leave from the classroom.

At the end of the year, after all of the required observations are completed, principals and peers independently review all of the observation ratings they have collectively given each teacher and each decides on a final evaluation rating. This allows principals and peers to develop a holistic assessment of a teacher's performance based on multiple data points.

The new evaluation system is figured on a 100-point scale: 60-point maximum for observations and

TEACHER PERFORMANCE LEVEL	OBSERVATIONS BY PRINCIPAL	OBSERVATIONS BY PEER	TOTAL NUMBER OF OBSERVATIONS	TOTAL NUMBER OF TEACHERS AS OF 9/10
MAP Eligible	1	2	3	7,893
Satisfactory in All Categories	3	2	5	2,254
Overall Rating of Satisfactory with One or More Categories Rated "Needs Improvement"	3	4	7	364
Needs Improvement	3	6	9	42
Unsatisfactory	3	8	11	11
First-Year Teacher	2	4	6	696

Peer evaluators are teachers who are hired to come out of the classroom for several years to be trained and serve as evaluators of their teacher colleagues. Mentor evaluators are hired out of the classroom to provide new teacher support. While peer evaluators conduct evaluations full-time, mentor evaluators spend ~ 10% of their time conducting evaluations. They do not evaluate the teachers they are mentoring.

DANIELSON FRAMEWORK DOMAIN	PERCENT OF TOTAL EVALUATION SCORE	TOTAL NUMBER OF POINTS PEER/MENTOR CAN GIVE	TOTAL NUMBER OF POINTS PRINCIPAL CAN GIVE	TOTAL POINTS
1. Planning and Preparation	20%	7.5	4.5	12
2. Classroom Environment	20%	7.5	4.5	12
3. Instruction	40%	15	9	24
4. Professional Responsibilities	20%	0	12	12
TOTAL POINTS		30	30	60

40-point maximum for value-added. Principals' and peers'/mentors' observations count for a maximum of 30 points each. There are two kinds of weighting reflected in the observations of teachers' practice: how points are spread across the four domains of the rubric; and the difference in weighting of peers'/mentors' scores and the scores of principals. The figure above reflects these differences.

The importance of effective instruction is reflected in the weight assigned to Domain 3 - Instruction which accounts for 40 percent of the total observation score; each of the other three domains account for 20 percent of the score. Peers' and mentors' ratings and those of principals are also weighted differently. Because Domain 4 - Professional Responsibilities - is hard to assess through classroom observations, principals are the sole evaluator of that dimension. Twelve (40 percent) of principals' points make up Domain 4, leaving them with fewer points to assign to Domains 1-3 than peers and mentors. As a result, principals' maximum scores in the first three domains equal 60 percent of peers' and mentors' maximum scores. This means that principals' assessments of teachers' performance relative to planning and preparation, creating a classroom environment for learning, and delivering instruction have significantly less weight than the assessments of peers and mentors.

In designing the new observation rubric and process, Hillsborough also raised expectations for teacher performance. In the old evaluation system, "outstanding" was the highest rating. In the new system the old "outstanding" is similar to the new "accomplished," the third of four ratings. This recalibration both raises the bar and allows for the recognition of truly excellent teaching with the new "exemplary" rating.

Value-Added

In 2010-11, Hillsborough requested a waiver from the state to develop its own value-added metric (to be used in concert with the state's metric to determine compensation starting in 2013-14) and to reduce the value-added weight in teachers' evaluation from 50 percent to 40 percent of a teacher's score to balance it with the two observation measures. Hillsborough hired the Value-Added Research Center (VARC) at the University of Wisconsin to develop its value-added model, and in school year 2010-11 VARC had a team working full-time to develop the formula and apply it to all teachers based on the tests available. This work built on the systems - mapping assessments to courses, reporting to teachers, and verifying students eligible and data assigned to each student - Hillsborough had developed internally to participate in MAP. Engaging VARC allowed the system to refine its model and include multiple measures in the calculation of a value-added score for as many teachers as possible.

Hillsborough had an array of assessments to use to create value-added scores. In addition to FCAT, the district administered the Stanford 10 in grades 1 and 2, semester exams for all high school courses, and Advanced Placement (AP) and International Baccalaureate (IB) exams. The district also had an end-of-year math assessment in grades kindergarten through eight, defined assessments for special needs students, and a variety of other assessments by grade and content area. This array of assessments allowed for multiple measures of value-added for some teachers. For example, the AP exam and the end-of-semester exams could be used to assess student learning for an AP English teacher. In the same way that Hillsborough had wanted two evaluators of classroom instruction to provide a broader perspective, it also wanted to diversify the information it was using to assess value-added, thereby limiting its reliance on any single measure.

Implementation

In school year 2010-11, Hillsborough rolled out the Danielson framework and rubric, laid out the new observational assessment expectations, and hired mentors and peer evaluators. It also put the value-added system in place. Given the size of the district, the enormity of the task, and the need to have Year One implementation go smoothly, Hillsborough collaborated with several key partners to provide the training and support and build the required infrastructure.

Training

HCPS hired Cambridge Education to help with the rollout of the framework and rubric and to prepare evaluators – principals, mentors, and peers (and later assistant principals and key central office staff) – to make credible assessments using the rubric. Cambridge Education was chosen first and foremost because of its capacity to train the 680 people in the district who needed to conduct observations and to complete evaluations. Cambridge Education implemented a six-day training program for evaluators, which included performance-based assessments and culminated with certification that was required before evaluators could begin their evaluations.

The training began with an online pre-course, which introduced the Danielson framework and domains. The training alternated between deep exploration of the domains through scripted observations of videos of classroom instruction and school-based observations, in which an instructor worked with a small group of evaluators as they applied their learning observing in classrooms. In order to be certified, evaluators had to be observed and vetted by Cambridge Education as they completed pre-observation conferences, observations, and post-observation conferences with two teachers. To ensure evaluators' continued learning, Cambridge

Education will conduct paired observations with evaluators periodically over the next three years. Additionally, HCPS is developing an online yearly evaluators' recertification process.

For principals, the six-day training was followed by time devoted at the monthly Principal Council meetings. Principals met by school-level to strengthen implementation. In the fall months, the focus was on reviewing videos of instruction and calibrating scores. Regularly throughout the year, principals received aggregate ratings for their school broken out by principal, peers, and mentors as well as individual ratings for each teacher. They also received a report of the teachers in their school for whom there was a discrepancy in ratings of more than one performance category. At the monthly meetings, principals looked at the data to identify patterns and see what they could learn from them regarding teacher support and professional development. The district used the monthly meetings to provide resources to support teachers. For example, principals were introduced to Doug Lemov's Teach Like a Champion, a widely-used resource on teaching techniques, as the first step in building evaluators' repertoire of instructional strategies they could draw on to support teachers.

Later in the year, trainers gave principals a teacher's "bucket" (an online repository of all observation scores, teacher responses to ratings, informal observation write-up, etc.) and asked them to review all of the data and discuss how they would synthesize it into a final end-of-year evaluation rating. This activity foreshadowed what principals would have to do for each of their teachers at the end of the school year.

For the 46 mentors and 76 peers who were freshly hired into newly created roles, the six-day training served as the beginning of their orientation. HCPS

contracted with The New Teacher Center (TNTC) to provide ongoing training to mentors throughout the year while the system took the lead on training peer evaluators. Given that the mentors' role was primarily focused on supporting first- and second-year teachers, with the evaluation component making up a small part of their overall responsibilities (they devote two weeks to evaluation, four times a year for a total of eight weeks), the district organized their professional development on TNTC's mentoring curriculum. TNTC ran six, three-day academies throughout the school year for all mentors. These sessions focused on deepening mentors' understanding of the Danielson domains, developing strategies to support new teachers in each domain, calibrating observations against them, and developing mentoring skills and strategies, using a variety of TNTC's assessment and development tools. These included templates to guide mentors in setting and tracking learning goals with new teachers and formatively assessing new teachers' growth.

One of the big priorities for the first year of mentoring was to create a learning community among mentors that would support their growth and development and sustain them in the work. Mentors were organized into smaller Professional Learning Communities (PLC) to build relationships and solve problems they encountered in their practice. Mentors were also organized in pairs to do observations together, share observation strategies, and calibrate ratings. By the end of the first year, mentors had organized themselves into workgroups to resolve issues that had come up and were developing an induction program for new mentors.

While TNTC brought to its work with Hillsborough a mentoring model and expertise and years of experience in developing mentors, HCPS developed its own peer evaluator model and facilitated training aligned to it. After successfully completing the six-day, competency-based training on the rubric and observing and analyzing classroom instruction. peers participated in four weeks of training at the end of the summer and in the early weeks of the school year. This institute continued the observation and calibration work from Cambridge Education and introduced a variety of resources and protocols. These included a pre-observation template with questions, accompanied by a pre-observation guide to facilitate deeper conversations. For example, the first pre-observation conference question was: What is/are your lesson objectives? The guide offered additional prompts, including: Why did you choose these goals and objectives? Where are you in relation to presenting this initial content and mastery? How do you plan to communicate the learning objectives to the students? How are you segmenting the learning? How much time are you spending on these goals and objectives?

Throughout the year, peers met in PLCs once a month for a full day to continue the work of the early professional development, share how they were using the resources provided and to what effect, and work together to solve common problems of practice. PLCs provided peers a smaller group of colleagues with whom they could share their work. This sharing continued outside of meetings, as peers asked one another questions about particular observations and shared snippets of write-ups for feedback.

The Work of Peer Evaluators and Mentors

As the 76 peer evaluators began the work of conducting 23,000 observations, they worked hard to build relationships with teachers. This was not an easy task. As one peer evaluator diplomatically noted, "Not everyone was as excited about the new evaluation as me." However, she continued, she made progress by the end of the year: "Teachers speak to me in the hall....They make eye contact." The pace peers had to maintain to complete their evaluations (each peer carried a load of 175 teachers) was very brisk. They had little time for in-depth talk with teachers about their practice. By the end of the school year, teachers were asking for that kind of support and in Year Two the peer evaluators' loads were reduced.

One of the reasons for introducing peer evaluators was to ensure objectivity, which was not guaranteed if only principals evaluated teachers. This made peers very cautious about their interactions with principals. They didn't want teachers to think they were discussing their observations with principals for fear it would compromise their credibility. Yet there was a sense among peers that collaboration between peers and principals might strengthen the implementation of the evaluation system. For example, if peers and principals did some joint observations to calibrate their scoring, it might lead to more closely aligned scores and a clearer message to teachers.

As peers engaged in their work, several unexpected concerns arose. For example teachers and contentarea specialists expressed concern that many peer evaluators lacked in knowledge of the elementary curriculum. Content-area directors from the curriculum and instruction department started "lining up in the doorway" of the director of evaluation and compensation, expressing concern about elementary observations by peers. The union was hearing similar concerns from teachers. The issue was that peer evaluators were using the Danielson rubric to assess instruction, without understanding the principles and theory of instruction behind the different reading and writing programs in place in elementary schools. As a result, they were sometimes giving teachers feedback that contradicted the philosophy of the curricular and instructional programs they were implementing.

In response, the district agreed to form a closer partnership between the curriculum and instruction department and the peer evaluators. By providing training to the peers in the different reading and writing programs and also supporting peers who were evaluating elementary teachers who were working departmentally, the district was able to ensure that the pedagogical focus of the Danielson rubric was complemented by the peers' content knowledge. At the same time, the district determined that the curriculum and instruction staff needed to participate in the six-day training on the rubric and evaluations so they could align their work to the teacher evaluation effort and provide support to peers, mentors, and teachers.

Support for Teachers

Teachers' support needs surfaced as they received their first observation ratings. The ratings identified areas for improvement related to the Danielson domains and teachers were looking for professional development opportunities aligned to those domains. To respond to these needs, HCPS reviewed all of its professional development offerings, organizing and advertising them by domain, and assessing where there were gaps in offerings. The system was best able to respond to teachers' needs in the area of behavior management; its offerings in the areas of differentiated instruction and higher order thinking skills couldn't meet the demand.

Given the limits of central office professional development offerings, teachers looked to peers and

principals for support. However, peers didn't have time in their schedules to support teachers in next steps, and principals reported varied levels of confidence in their ability to do that work well. Principals worked to put school-based professional development in place, but it was inconsistent across schools. Some schools implemented teacher book studies – using the Danielson book that examines the domains in detail and *Teach Like a Champion* – to build teachers' understanding of the domains and their repertoire of instructional strategies.

The union was also working to increase support to teachers. It won a grant from the American Federation of Teachers (AFT) Innovation Fund to create online professional development and communities of practice for teachers aligned to the Danielson domains. Teachers facilitated the communities, which engaged several hundred teachers working collaboratively to develop tools and which reflect the priorities outlined in the Danielson domains for specific grades and content areas.

While the district worked to align teacher professional development to the Danielson domains, it realized that there was a more fundamental problem. Early in the fall, both principals and peers identified a misalignment between the rubric and the instructional demands certain categories of teachers faced. Exceptional Student Education (ESE) teachers - those who taught students with severe special needs - complained about the same issue to the union. In response, the district and the union created a committee of ESE teachers, curriculum and instruction staff, and leaders of the evaluation effort to address this. One option was to take ESE teachers out of the group assessed using the rubric; the committee chose not to do that. Instead, they developed guidelines on how to interpret the domains in these classroom settings, and what evidence to use to inform scoring. A similar issue was identified for 12th-grade credit-recovery teachers. Given that much of the work students do in this class is online. it was hard to measure teachers on the domains and, ultimately, it was decided that the rubric would not be used for this group of teachers.

Support for Principals

The demands of the new system on principals' time was profound and the signs of principals' stress in the fall made it clear that the district needed to address this problem to ensure the success of first-

year implementation. Principals raised this concern with staff leading the evaluation initiative and the assistant superintendent for administration raised the same concern at the superintendent's senior staff meeting. The district decided to take two steps to ensure that principals had the time they needed to conduct classroom observations. First, it asked principals what the system could take off their plates to make the observation expectations more manageable. Second, it immediately directed Area Directors (AD)², the principals' supervisors whose jobs were focused mainly on operational issues, to deploy resources to the schools to support non-instructional issues.

When principals were asked how their work could be streamlined, they had lots of suggestions, and the district responded. Principals' requests included: move the behavior management responsibilities related to implementation of Response to Intervention (RTI) from them to guidance counselors; group common requests the system makes of principals to one time of year rather than spreading them out throughout the year; make it possible to upload observation scores onto the Lawson Talent Management system from home; and extend the year-end deadline for completing observations and evaluations by two weeks.

Senior leaders addressed each of these requests and others as well as making curriculum and instruction content-area leaders available to principals to help conduct observations. Assistant principals were trained by Cambridge Education and were leveraged to help with the observations. While principals sign every evaluation, assistant principals conducted observations in several circumstances: when the teacher needed more than one observation; when the teacher was pursuing pay-for-performance; and when the principal wanted another perspective.

The stepped-up role of ADs also helped ease the principals' administrative burdens somewhat, in order to enable them to focus on their evaluation responsibilities. Each AD oversees 35 to 40 schools and has a small staff representing food services, transportation, technology, and exceptional students' education to deploy to support schools. They send their teams out to staff front offices, attend to parent concerns, and deal with non-instructional issues.

However, ADs were not prepared to support principals in the substantive work of observing and analyzing instruction. This was not work they had done previously and they had not participated in the six-day introductory training. Their load of 35 to 40 principals further limited their ability in this regard. The system quickly realized that in order to institutionalize the new focus on teacher effectiveness, the ADs' job would need to be redefined to focus on supporting principals in this work. This need was made even more clear as Hillsborough prepared to implement a new principal evaluation.

ELEMENTS OF NEW PRINCIPAL EVALUATION	% OF TOTAL EVALUATION
Student Achievement (overall student growth 30%; growth of highest-needs students = 10%)	40%
360-Degree Feedback	15%
Area Director's Assessment	15%
School Operations	10%
Student Attendance and Discipline	10%
Retention of Highly Effective Teachers	5%
Alignment of Principal's Evaluation Score to Value-Added Data	5%

In school year 2010-11, principal supervisors' position title was "Area Director." In school year 2011-12, the title was changed to "Area Leadership Director" to reflect a renewed emphasis on leadership support to principals.

The new principal evaluation introduced in 2011 includes the Val Ed. survey, a highly regarded evaluation tool designed by researchers at Vanderbilt University. It requires ADs to rate principals on a set of 72 indicators of the quality of principals' practice. ADs' traditional focus on operations limited their ability to make such an assessment; their load of 35 to 40 schools also makes it a challenge for them to know the intricacies of each principal's practice.

ADs' readiness to support principals and hold them accountable for instructional improvement and teacher development was one leadership challenge that surfaced in the implementation of the new teacher evaluation.

Accompanying it was a growing awareness of the need to develop a stronger pipeline to the principal-

ship and a variety of supports for current principals to build their skills and ensure their ability to meet the district's changing expectations for them. When considered together, these issues suggested the need for an overall school and system leadership development strategy. Seeing the importance of this for the long-term success of the teacher effectiveness efforts, Hillsborough applied for and received funding from the Wallace Foundation to build a pipeline to the principalship and a robust structure of support for new and experienced principals. The foci of this grant include principal preparation, support for new principals, development for current principals who aspire to lead the system's most urban schools or serve as area directors, and support for area directors that allows them to spend more time in schools.



Collaboration, Communication, And Cross-Functionality

iven the size of HCPS and the complexity of the new evaluation system, clear, consistent, regular communication was prioritized as critical for success. The system's earlier work on pay-for-performance and the challenges it had faced made it clear how important strong communication would be. It would help maintain a high degree of trust during a time of tremendous transition where there would inevitably be missteps, learnings, and refinements made along the way. Of the six positions created to implement the Gates grant, one of them focuses solely on communications.

The system defined communication broadly and developed a multi-pronged strategy. It included two-way communication with teachers and principals; collaboration between the union, the district, and outside stakeholders in shaping the efforts; and an internal management structure that was crossfunctional and forced a high degree of interdependence between people and departments. The tone for this collaboration and communication was set by the steering committee that wrote the proposal to the Gates Foundation. The foundation required that the superintendent, school board chair, and union president be on the committee. Given Hillsborough's history of collaboration with the union, the president was a logical person to include. The inclusion of the school board chair ensured a clear line of communication with the board, which would prove invaluable when implementation was messy and concerns were raised to board members. The additional two members were Wynne Tye, Assistant Superintendent for Curriculum and Instruction and David Steele, Chief Information and Technology Officer. Tye and Steele represented the academic, professional development, technology, and information-management divisions, areas that were heavily implicated in the work and would have to work together to execute the design.

Once Hillsborough received the grant, Steele became the lead. He and the superintendent had worked together for years, dating back to his assistant principalship of a magnet school when Elia oversaw the magnet schools. The choice was easy, Elia explained. "We have complementary skills," she said. "He can do things I can't do and I can do things he can't do.... We speak truth to one another... and David is good at illuminating problems and finding data to reinforce them." For his part, Steele made clear that his view of communication helps explain his lead role. As he put it, "Communication involves listening as well as talking," reflecting the district's approach in this area.

Committees

A central element of the system's communication and collaboration strategy grew out of a teacher focus group the steering committee convened to help develop the Gates grant. This group evolved into the Teacher Advisory Committee (TAC) after Hillsborough won the grant and has been a critical partner ever since. It decided on the use of the Danielson rubric, vetted the value-added strategy, and meets monthly to discuss the status of implementation, problem-solve, and create communication vehicles. (See Appendix B for a list of TAC members and to see where it fits in the overall committee and communication structure for EET.) A good example of the work of TAC is its agenda for the spring 2011 meeting. The group reviewed a video it had developed for teachers to explain the intricacies of how the 60 points for the observation component of the total teacher effectiveness score is calculated. This would be shared with all teachers in anticipation of the final observation scores at the end of the school year.

Once Hillsborough received the EET grant, it decided to develop a Principals Advisory Group, recognizing that principals would be essential to the successful implementation of the new evaluation system. HCPS wanted to have a direct pipeline to them to share the work of the grant and get feedback as well as to track how the work was going on the ground. Seventeen principals, spanning K-12, serve on the committee, which meets bi-monthly to discuss implementation challenges and opportunities and think through upcoming work.

While the steering committee is responsible for oversight of the grant, the Gates Management Team, made up of the six EET directors (funded by the Gates Foundation and the Broad Foundation), is charged with designing and executing key components of the grant. This team meets weekly to discuss progress, problems, and plans. The directors who serve on this team are the people who work most frequently with the principal and teacher advisory groups. The management team reports once a month to the steering committee and has bi-weekly access to the superintendent's senior staff meeting to share its work and flag potential problems and areas where cross-functional collaboration is critical. It is in this setting that principals' stress level was discussed and strategies to provide them more support and extend deadlines were developed.

Collaboration

Beyond all of these committees focused on the EET work, the existing structure of monthly principal council meetings, organized by level, is the primary mechanism for communicating and working with principals. Part of the agenda of these monthly full days of training and development is devoted to the new evaluation system. This time is spent calibrating scores, reviewing trends in teacher performance, and developing plans of support. EET directors attend these meetings to share updates, provide professional development, and gather feedback. It was in these meetings that principals brainstormed about the most meaningful ways the system could lessen their load.

In addition to the committees, Hillsborough has established a process to develop the evaluation system that ensures broad-based input. The selection of the teacher evaluation rubric provides an example of how the process works. When the district had to identify the rubric it would use to

guide teacher observations, it leveraged the TAC to guide the work. First, managers from Professional Development and Human Resources worked with the committee as it reviewed different rubrics available and made a recommendation to the Gates steering committee. The steering committee vetted the proposal and brought it to the system's senior leadership team. After discussion at the senior leadership team, refinements were made and the proposal went to the school board.

Once the rubric and format for observations was settled, the committee turned its attention to the value-added metric. The director of assessment and performance management brought different scenarios about how student growth could be measured and what different data sources could be used. The group worked to develop a proposal that then moved through the steering committee, senior leadership, and, finally, the board. In SY 2010-11, the committee followed the same process as it developed the evaluation system for media specialists, guidance counselors, technical resource, pre-K, and adult education teachers, which it rolled out in SY 2011-12.

Beyond the formal committees and structures, the way the EET staff work reflects the commitment to collaboration and cross-functionality. While all of the EET staff report to Steele, several of them "sit in" on the staff meetings of other departments. The directors overseeing professional development and assessment sit on the curriculum and instruction team's staff meetings, while the director of evaluation and compensation and the manager who works with her both sit on the human resources department's staff meetings. Given how the EET work cuts across these departments, it is essential to have close working relationships that allow the central office to anticipate issues that multiple departments need to address collaboratively.

The commitment to collaboration and problem solving is part of the culture of HCPS and extends beyond committees and who sits on whose staff meetings. It has been critically important in the first year of implementing the evaluation system. When the content area directors started lining up outside the door of Stephanie Woodford, the Director of Evaluation and Compensation, to express concern about elementary teachers' evaluations, she quickly realized she needed to partner with Tye to address this issue. That collaboration led to training all content-area directors so they understood the

evaluation system and could be additional evaluators in their content areas as well as training for peers in the different reading and writing programs in place in HCPS schools.

Communication

Given that teachers are profoundly impacted by the implementation of the new evaluation system, communication with them is paramount. Working under the belief that there is no such thing as too much communication, Hillsborough developed an array of vehicles to keep teachers well informed, hear from them, and respond to their concerns. Strategies include:

- EET Toolkit on the HCPS website, which provides one-stop shopping for descriptions of each element of the initiative, key documents, tools, etc.
- Monthly newsletters to teachers and principals about EET's current happenings and upcoming attractions
- Quarterly online magazine regarding EET
- Link from the districts' home page to EET website with easy access to most recent webcasts, PowerPoint presentations, etc.
- Monthly board update reporting progress, results, and next steps
- "Greatteachers," a dedicated email to which teachers can send any questions. The directors of peers and evaluation and assessment receive those questions directly and reply within 24 hours
- EET Speakers' Bureau, which provides speakers for faculty meetings, community events, etc.
- Video response to frequently asked questions (FAQ) that feature teachers
- Online video overviews of each of the key components of the initiative, e.g., evaluation and compensation, induction, assessment, and performance management
- Webinars about elements of the teacher evaluation, e.g., observations and scoring, valueadded

- Presentations at schools introducing key elements of the initiative just before they are implemented
- Updates at all monthly principal and assistant principal meetings
- Podcasts and pop-ups (they pop up on school system computers when they are turned on) by the superintendent regarding timely issues tied to the new evaluation
- Provision of PowerPoints, FAQs with answers, scripts, tri-fold brochures, and a DVD to guide principals' presentations to teachers about elements of the initiative
- Identification of Teacher Ambassadors at every school who serve as the communication liaison on EET, sharing information with teachers and sharing their feedback back to the system
- Surveys to get teacher feedback, which included a mid-year survey on the peer evaluators and end-of-year surveys on both peers and mentors

With all of these efforts, Hillsborough has learned some important things about communicating effectively. First, it became clear that communication needs to be developmental. Given everything the system is trying to do, the key is to identify what teachers and principals need to know when and focus on those things so as not to overwhelm them. In the spring of 2010, after the Gates Foundation funded Hillsborough, the superintendent made a series of presentations about the EET initiative and developed a webinar about its vision, key elements, and the timeline for implementation. Similar communications have been developed for each element of the initiative as it is rolled out.

In the spring of 2011, two things were on the horizon. In June, teachers would get their final observation ratings from their principal and peer/mentor. The district needed to explain how those scores are calculated and why the two scores might be different. This was done through a web-based video and an accompanying handout that walked teachers through the calculations. At the same time, the district knew it needed to start to educate people about the value-added component of the evaluation. All winter and spring, the director of assessment was on a speaking tour, visiting faculty

of almost every school to talk about value-added. Given that this was the first conversation on the subject for most teachers, the goal was awareness and an understanding of the concept. In late August or early September 2011, a few weeks before the value-added scores become available, a web-based video was released to explain the specifics of how the value-added metric is calculated.

A second learning was that face-to-face meetings are still essential. While technology has made communication much easier, sometimes human contact is the best strategy. Anna Brown, the Director of Assessment and Performance Management, felt this very clearly as she spent months visiting hundreds of schools to talk about the concept of value-added. While incredibly labor intensive, these visits gave her the chance to hear from teachers about their

concerns, identify patterns and trends in teachers' comments, and think about how the system could best respond to them. The visits gave teachers a name and a face to connect to the value-added work, making something unfamiliar and potentially frightening much more accessible. They now knew the person answering the value-added questions they were sending in through "Greatteachers."

It is worth noting that almost all of the district's senior leaders involved in EET and the directors who serve on the management team were successful teachers and principals before coming to their roles in the central office. The concerns of teachers and principals are never far from any conversation about the initiative and there is a strong orientation in the central office towards serving schools.



Perspectives From The Field

tressful" is the word educators and administrators in Hillsborough commonly use to describe the first year of implementation. The stress seemed to come in waves. Teachers were stressed at the beginning of the year because they didn't know what the expectations of this new system were and what the peer role would be like. The Assistant Superintendent for Curriculum and Instruction remembered, "You could hear a collective exhale once everyone had been through the first observation." As the year progressed and teachers received observation ratings from both their principal and their peer, the stress level rose again for teachers who saw a discrepancy in the scores and wondered what it meant and what the implications for them were. At the end of the year, teachers waited in anticipation to see how their principals and peers would calculate their overall performance rating based on their observations throughout the year and wondered about the value-added data that would be shared in the fall.

Despite all this transition and uncertainty, teachers had good things to say about the new system. Speaking for many, one observed that principals "are taking their role as educational leaders more seriously." And a first-year teacher's comments made it clear that the system's hope of raising expectations for teacher performance was being realized. She reflected, "I wouldn't have done the planning and preparation without the mentor and the evaluation. I wasn't taught it in school. This has made me better."

Principals experienced a pretty consistent level of stress throughout the year. The new evaluation system dramatically increased their responsibility for assessing teachers' performance and it was a real challenge for them to simply find time to complete the observations. Once expected to observe every teacher once every three years, principals now had to observe every teacher every year. Additionally, principals are now expected to formally observe teachers who are rated "Satisfactory" or below *three* times a year. One principal described

the implications of the new system on her practice, explaining, "I'm spending more time in individual classrooms but am not as visible in the school." In addition to changing how principals spend their time, the new evaluation system also makes different demands on what they need to know to lead the work. Principals simultaneously talked about having good conversations with teachers about their practice and feeling not well prepared to provide teachers specific suggestions and resources to support them to improve their practice.

While the first year of implementation was very demanding for principals, they felt positive about the effort at year's end. An Area Director explained that, "as stressed out as they [principals] are, they like it." One principal articulated a perspective heard repeatedly across the system, explaining, "I have found out more about what's going on in my classrooms than I ever knew." Principals also reported that the new evaluation system made it easier for them to deal with low-performing teachers. One principal commented, "It's easier to mark a teacher 'Requires Action' or 'Developing' because it's not subjective. The rubric helps. It's not personal." The presence of peer evaluators also proved to be a support to principals when they were struggling with an underperforming teacher. As one principal explained, "A peer's score sometimes encouraged principals to say what they really think about the instruction."

When asked about the successes of first-year implementation of the new evaluation system, the superintendent laughed and said, "That I'm still here. We're all still on the same page. We haven't eroded trust at the end of a huge lift." Her comment underlined the high stakes of the year's work. The enormity of the challenge and the progress made are reflected in the comments of an experienced teacher as he described the impact on him and his colleagues in his school: "It pushed a lot of people. They got their score and self-reflected and thought about it. And then they said, 'Maybe that is where I'm at."

Data And Results

The evaluation data for teachers at the end of Year One came available in two phases. In June, observation data collected all year were aggregated and every teacher received an observation score from her principal and her peer. Each of these ratings had a maximum score of 30 points, which when combined reflected a maximum of 60 of the 100 points on which the evaluation is calculated. The value-added score (maximum of 40 points) became available in the fall once the FCAT results were reported, the end-of-course tests were administered and graded, and the system had the chance to calculate value-added. Thus while teachers finished the school year knowing their performance relative to 60 percent of their evaluation, they had to wait until the fall to learn of their performance overall.

Given the timing of the state assessment and when the results become available, this bifurcation of evaluation data and resulting uncertainty for teachers is a reality the system and its teachers will need to live with.

Data

In June of 2011, after a full school year of implementation of the new evaluation system, HCPS had data about observations and observers, the quality of instruction, and the performance of teachers that it had not had access to previously.

When the June 2011 data are disaggregated they show some clear patterns. Principals' and peers' ratings differ in some significant ways, and teacher performance in specific domains varies substantially. The grid below provides basic comparative data. (See Appendix C for year-end summary ratings of principals, peers, and mentors organized by the Danielson domains.)

Year-end evaluation data based on observations completed by principals, peers, and mentors indicate that principals and peers gave the lowest overall performance rating at a very consistent rate. However, principals were more likely than peers to give teachers the highest rating. Principal and peer ratings in the middle two categories were close – within 2.3 percentage points of one another, with peers rating slightly more teachers as "Developing" and principals rating slightly more teachers as "Accomplished." Mentor ratings were higher in the two lower levels of performance and therefore lower in the top two performance categories. This is understandable, since mentors were evaluating first-year teachers only.

Examining the principals' and peers' observation ratings more closely, some interesting similarities and differences surface. Both principals and peers scored the teachers lowest in Domain 3 – Instruction. Four of the five sub-domains in Domain 3 – Communicating with Students, Using Questioning and Discussion Techniques, Engaging Students in

EVALUATOR	REQUIRES ACTION	DEVELOPING	ACCOMPLISHED	EXEMPLARY	NOT OBSERVED
Principal	1.7%	24%	61.7%	11%	1.5%
Peer	1.6%	26%	64%	7.3%	1.1%
Mentors	3.9%	44.5%	47.1%	3.9%	0.5%

Learning, and Using Assessment in Instruction – got the lowest ratings, with a third to half of teachers rated "Developing" in these categories. The consistently lower ratings in Domain 3 reflected what principals and central office administrators expected. They specifically identified student engagement, rigor, and the level of questioning as areas that needed attention. Peers rated more teachers as "Developing" in all four sub-domains of Domain 3, with the difference between peers and principals ranging from 4.7 to 10.7 percentage points.

The two other areas where teachers consistently scored low are sub-domains in Domain 1: Designing Coherent Instruction and Designing Student Assessments. In these two areas, peers rated more teachers as "Developing" than principals did. In comparing principals' and peers' ratings across all 16 sub-domains that both groups assessed, there was a variation of 5 percentage points or more in the ratings in 10 of the categories, suggesting a continued need for vigilance in calibrating principal and peer scoring.

Results

At the aggregate level, the data provide an overall distribution of teacher performance. In the 2009-10 school year, teachers were observed and evaluated using a 144-point scale and there were five performance levels. One-third of teachers got a perfect evaluation score of 144. These results cannot be compared with later results because the scoring system changed.

In September of 2011, teachers received the data regarding the remaining 40 percent of their performance rating: the value-added results. These data were provided in two formats with two purposes in mind. Teachers first received a "five-star" report (see Appendix D) that listed every student in the teacher's class and illustrated the teacher's valueadded to each student's learning using a one- to five-star rating. This allowed teachers to guickly discern which students they were having the most positive impact on, and which they were affecting the least. The second report indicated their valueadded rating on the 40-point scale. Armed with this data and the observation scores from the spring, teachers were able to calculate their total performance score, based on a maximum possible score of 100 points.

At the end of the first year of implementation, teachers received a variety of data to help them begin to construct their own understanding of their performance relative to their peers. In June, they received their cumulative observation ratings reported by principal and peer (see Appendix E for an example) as well as a report that showed the distribution of observation scores across all teachers in the system.

In September, teachers received their value-added score and their total evaluation score, along with reports of the teacher distribution of both value-added scores and total evaluation scores. The distribution reports allowed teachers to gain a sense of where they performed relative to their peers. Each of the three distribution reports (observation, value-added, total evaluation score) included some analysis of the data, which provided hints about where the district might set performance level cut scores in fall 2012, when two years of data are available. (See Appendix F for these reports.)

HCPS's two-year rollout of the new evaluation scores and performance ratings both provides two year's worth of data to inform where cut scores are set and the opportunity for teachers to get used to the new system and identify for themselves (as opposed to being told by the system) how they are performing. This approach makes it likely that many teachers will predict their performance level fairly accurately before the system reports it to them, which will likely leave them feeling more in control and empowered than being told a rating, the origins of which they don't fully understand.

While actual overall evaluation rating categories will not be set until fall 2012, the consequences have been determined based on the first-year data. Teachers whose total evaluation score places them in the top performance quartile (relative to their peers teaching the same student demographic, subjects...) received a \$2,500 bonus in school year 2011-12 for performance in the prior year.

At the same time, cut scores were set for "Unsatisfactory" and "Needs Improvement" performance levels. One hundred teachers whose overall evaluation score was 36.0 or less based on a 100-point scale were rated "Unsatisfactory." This number represents five times as many teachers who were rated "Unsatisfactory" in school year 2009-10 (19). Teachers rated "Unsatisfactory" are given support in priority instructional areas and do not receive a

salary step increase. Any teacher who receives an "Unsatisfactory" rating two years in a row is eligible for dismissal. Teachers whose overall evaluation scores were in the 36.01 – 41.0 range received a rating of "Needs Improvement." One hundred and forty four teachers fell into this category in 2010-11. These teachers also get individualized support and forego their salary step increase, but are given more than a year to improve. The teachers who fall into these two lowest performance levels represent 1.6 percent of the HCPS teaching workforce.

While HCPS is at the beginning of analyzing 2010-11 evaluation data to learn all it can tell the system about teacher performance and the impact of specific system efforts, early analysis suggests some level of correlation between observation and value-added scores. This is encouraging, but the district needs to explore it in greater depth and detail.



Refinements And Priorities For Year Two

CPS's learning from Year One implementation drove the refinements made to the system in the 2011-12 school year and informed the system's priorities.

Refinements

The time required for observations and the pre- and post-conferences associated with them was more intensive than anyone expected and placed tremendous demands on principals' and peers' time. The system has prioritized supporting this work better and making it more manageable. On the principal front, this means several things. The first involves principals' ability to delegate responsibility for observations. Under the system, principals are required to complete one formal observation for every teacher in their building. The informal observations, though, can be delegated to other administrators in the building. In the first year of evaluation implementation, the information management system didn't discern if another administrator completed and submitted the evaluation. So HCPS had little sense of the extent to which principals delegated this work. That glitch in the information management system has been fixed, so this data can be tracked and principals are being encouraged to delegate observation responsibilities. To support this, assistant principals are receiving additional training on the teaching framework and conducting observations. Additionally, HCPS is providing training and support to principals on time management to help them integrate the evaluation expectations with their other responsibilities and make strategic decisions on how they spend their time.

For peers, the district adjusted their load to make their observation work more manageable and supportive for teachers. In the first year, peers observed as many as 175 teachers, making it difficult for them to interact with the teachers they observed. For school year 2011-12, the number of teachers' peers responsible for observing was reduced to 110. To accommodate that shift, the district increased the number of peers from 75 to 109.

At the same time that the system was refining the peers' load, it expanded the mentoring model that served novice teachers. In school year 2010-11, mentors served all first-year teachers, providing them support in their classroom once a week. Every mentor had a group of fifteen new teachers with whom she worked. The positive impact of mentoring was reflected at the end of the school year when first year retention was reported at 86 percent, which represents a jump of 14 percentage points from the 72 percent retention rate in SY 2009-10. In school year 2011-12 the mentoring program was fully implemented as second-year teachers received mentoring once every other week.

Based on feedback and learning in Year One, HCPS also revised the observation schedule to make a couple of important distinctions. The first distinction was between formal and informal observations. The system introduced informal observations in SY 2011-12 as a mechanism for more frequent and focused observations and feedback to teachers and to lessen the burden from the first year of a pre- and post-observations conference after every observation. To allow for a deeper review and analysis, the district agreed to focus informal observations solely on Domains 2 and/or 3 from the teaching framework. In addition, the district agreed to eliminate the pre- and post-observation conferences for informal observations. In lieu of conferring, observers are required to provide teachers written feedback on each of the components of Domain 2 and/or 3.

PRIOR YEAR EVALUATION SCORE	ADMINISTRATIVE FORMAL OBSERVATIONS	ADMINISTRATIVE INFORMAL OBSERVATIONS	PEER FORMAL OBSERVATIONS	PEER INFORMAL OBSERVATIONS (minimum requirement)	SUPERVISOR FORMAL OBSERVATIONS	TOTAL: FORMAL/ INFORMAL/ TOTAL
36.0 – 60.0	1	1	1	2	0	2/3/5
23.0 – 35.99	2	2	1	2	0	3/4/7
18.0 – 22.99 (or designated a "NI")	2	2	3	2	0	5/4/9
0 - 17.99 (or designated a "U")	2	2	4	2	1	6/5/11
*** Teachers with experience who are new to district	1	1	1	2	0	2/3/5

Notes

- "Prior year evaluation score" refers to teachers' final evaluation score based on observations. It does not include their value-added measure.
- A formal observation is a full cycle of pre-conference-observation-post conference. An informal is a 15 minute unannounced observation in which the observer looks only at Danielson Domain 2 or 3 (or sometimes both).
- The supervisor category refers to district curriculum supervisors.

The final refinement made for the second year was the revising of the teaching framework rubric. After using the rubric for a year, principals, peers, and mentors identified a number of things that needed to be refined to make the rubric clearer and easier to use and changes were made. Some of the changes were aimed at drawing more subtle distinctions across the four levels of performance. Other revisions highlighted district priorities (e.g. teachers' strategic use of formative assessments) that hadn't gotten enough attention in the initial rubric. The most significant changes were made in Domain 3 - Instruction - specifically in the sub-domains, Communicating with Students, Using Questioning and Discussion Techniques, and Engaging Students in Learning. These revisions made expectations much more explicit. For example, in Communicating with Students, the rubric descriptors expanded from a focus on teacher presence and clear lesson objectives to clear lesson outcomes "situated within broader learning," clarity of directions and procedures, scaffolding and accuracy of teacher's explanation of content, the clarity, accuracy and appropriateness of teachers' vocabulary, spoken and written word, and the intellectual engagement of students.

Priorities

In addition to refining the evaluation system, HCPS identified priority areas for focus that would support teachers in improving their practice and principals in honing their skills of observation and supporting teacher improvement.

For teachers, the district's Curriculum and Instruction department continued the process of expanding teacher professional development offerings aligned to the domains in the rubric. The relatively low scores for Domain 3 - Instruction - suggested the highest priority area for professional development. Fortuitously, the state's adoption of the Common Core State Standards (CCSS) provides a simultaneous opportunity for professional development around instruction. As Hillsborough begins to introduce the CCSS to teachers, it is framing them as a direct response to the evaluation data. They are being introduced as an explicit strategy to support teachers in Domain 3, rather than as yet another initiative being heaped on teachers' already overflowing plate.

CCSS's expectations will go a long way towards educating teachers about what students need to understand and be able to do. They will reinforce the need for more challenging curriculum, more rigorous instruction, and questioning that challenges students' thinking and requires them to articulate and apply their understanding. All of these issues surfaced through first-year observation data; CCSS's external validation of them as important is critical. As Hillsborough develops resources to support teachers to teach to the CCSS, the system will introduce them in a way that is both a response to teachers' observation ratings and a mechanism to prepare the district to meet the expectations of CCSS. Integrating these two enormous initiatives makes them mutually reinforcing, and increases the likelihood that teachers will see CCSS as a positive development.

As one of the school systems participating in the Gates Foundation's Measuring Effective Teaching (MET) study, Hillsborough is trying to determine the best way to integrate the learning and resources developed through that work with its new evaluation system. Given that the study has included the videotaping of hundreds of teachers in the system, Hillsborough is hoping to make more use of videos and figure out how to integrate them into the professional development it is working to strengthen. Teachers' experience of videotaping as powerful professional development in its own right has the system interested in adding it to the induction support it offers to new teachers. The MET study's early report of the high degree of correlation between student survey responses about teachers and teachers' value-added scores has Hillsborough thinking about how it might use student surveying as a formative measure for teachers. The system's early thinking is that surveys will provide teachers more feedback about their practice, which they could use to guide improvement. It is not clear, at this time, if these surveys might eventually be used for evaluation.

In addition to providing professional development support to teachers, HCPS has reconceptualized the Area Director role³ (and staff) to better support principals by having them focus less on operations and more on instruction and coaching principals. Their staff will still be available to address operational

issues but the area directors, themselves, will focus more tightly on leadership and instruction. To begin this shift, the district trained the current ADs in the observation rubric and in observing and analyzing instruction in the summer of 2011. In addition, the district hired four people to work across the seven areas to respond to parent inquiries, to free ADs up to be in schools supporting principals. And seven coaches have been hired from the ranks of HCPS principals to work with principals (particularly new principals) to help them manage their workload.

On the technology front, Hillsborough is working to integrate its systems. The first priority is to expand Lawson Talent Management System, where evaluation data is stored, to include a professional development tracking system so teachers' observation scores on specific domains will generate personalized professional development recommendations. A longer-term goal is to develop a one-stop portal for instructional resources for teachers: model lesson plans, videos of effective instruction, etc.



³ As part of the reconceptualization of the role, the job title has been changed from Area Director to Area Leadership Director.

Conclusion

illsborough's experience in the implementation of a new teacher evaluation system suggests recommendations that are relevant to all school systems undertaking the work of designing and implementing new teacher evaluation systems. These themes are worth highlighting:

 Reimagine the role of school leaders in the teacher effectiveness work and align their support and their supervisors' work accordingly

Implementing a new teacher evaluation system requires strong school leadership and effective supervision and evaluation of principals to ensure its long-term sustainability. In Hillsborough, implementation of the new evaluation made it clear that principals needed more time and support to be in classrooms observing instruction and Area Directors needed to have the skills to talk with principals about their evaluation work, the quality of instruction in the school, and the strategies for improvement.

Looking beyond the first year of this initiative, bigger questions about the role of the principal loom. The thorny question of how principals will be afforded the time to do this work provides an opportunity to consider what Eileen Horng and Susanna Loeb refer to as "organizational management for instructional improvement." This post-instructional leadership conception of the role of the principal recognizes the need for principals to have their pulse squarely on the quality of instruction in classrooms across their schools. But it suggests that the principal's most important job is to orchestrate the organiza-

tional conditions – supervision, professional development, teacher collaboration, scheduling, teaching loads, and student assignment – that support instructional improvement and serve all students well.

Hillsborough's decision to have principals be one of two evaluators, to have them generally do fewer observations than the peer evaluators, and to give them the authority to delegate their informal observations to other administrators provides the wedge into this conversation. What is critical is how the evolution of the principalship is framed from this point forward. Principals in Hillsborough talked about needing to develop more skills and resources to support teachers in the areas their observations surfaced as weaknesses. They also talked about their nascent work in trying to provide structure for professional development and collaboration to support teachers in instructional areas of common concern. Developing principals' skills in these areas is paramount and it has tremendous implications for the work of principal supervisors.

Hillsborough learned early on that the principal supervisor role could no longer be primarily operationally focused. Principal supervisors need to be able to assess the quality of instruction, support principals in developing the organizational conditions required to support instructional improvement, and hold principals accountable for implementing them. They need to be experts in everything from school scheduling to adult development to building a culture of strong support and accountability.

³ Eileen Horng and Susanna Loeb, "New Thinking about Instructional Leadership," Kappan 92(3), November 2010, 66-69.

2. Deepen capacity

Hillsborough invested heavily in the training and development of evaluators, knowing that consistency in their practices and rating is essential to the credibility of the evaluation system. The training provided was deep and ongoing. By the end of the first year of implementing the new evaluation system, though, Hillsborough realized that there were people beyond evaluators who needed similarly deep training and the overall success of the evaluation work depended on this.

One obvious group was the Area Directors who support, supervise, and evaluate principals. Their historic focus on school operations needs to be balanced by a deep focus on instructional quality and levers principals can pull to drive instructional improvement at the level of individual teachers and a school faculty. This shift requires ADs to have a deep understanding of the framework, ratings of teaching practice that are calibrated with those of evaluators, and the ability to talk with principals about strategic leadership moves they can make to accelerate instructional improvement.

The people charged with ensuring a robust curriculum and instruction infrastructure also need to understand the teaching framework so that they can ensure strong connections between the curriculum and pedagogical initiatives they develop and champion and the framework. In addition to making sure curricular decisions support the instruction emphasized in the framework, these staff members need to be able to communicate these connections clearly. The central office staff's ability to tie curricular initiatives to the framework and use the language of the framework to describe them helps ensure teachers experience alignment between what they are being asked to do in their classroom, the support provided to them, and what they are being held accountable for in the evaluation.

Interpret the points of discontent and discomfort with the new evaluation system at the end of the first year of implementation

as signals as to where the next layers of development lie

At the end of the first year of implementation of the new teacher evaluation system in Hillsborough, four issues surfaced that were simultaneously signs of success and indicators of the next phase of the work. First, there was a deep, data-based understanding of the quality of instruction in the system. Second, principals and peers felt uncomfortable about their ability to provide meaningful guidance to teachers to support instructional improvement. Third, teachers wanted more coaching time with peer evaluators. And fourth, principals and peers wanted to collaborate more.

All of these issues point to one critical issue: the need to build capacity within the system relative to high-quality instruction and helping teachers improve their practice. Teachers need to share common images of what rigorous, high-quality instruction looks like, sounds like, and feels like - and how to deliver it. Principals, peers and mentors need to learn those same things as well as how to talk about effective instruction and how to give teachers concrete support in developing these instructional practices. Everyone needs commonly-held images of planning, instruction, and assessment that demonstrate how those three elements can be woven together to create a rigorous learning experience for students. Providing a vision of what instruction can look like at its most engaging and rigorous and building educators' capacity to provide and support it is both a daunting task and a stunning opportunity.

The fact that teachers are asking for support from peers and principals and peers want to collaborate is a sign of people's openness and also the reality that everyone is going to have to work together to create new knowledge that will raise the quality of instruction. Leveraging this desire to collaborate will increase the system's ability to do this next, challenging stage of work. It will also likely continue the evolution of how professional development is defined and delivered in terms of the role of individuals, schools, and

the district. Embedded in teachers' request for more support from peers and principals' desire to partner with their peers is the opportunity to chip away at the historic firewall that has been created between teacher support and accountability and create a true teacher performance-management system in which teachers receive ongoing feedback on their practice and support to improve continually.

4. Communicate as a means of collaborating

Hillsborough's continuous, multi-pronged, multi-dimensional communication strategy fostered a strong sense of collaboration throughout the school system and with the teachers' union. The carefully staged communication about elements of the system and their rollout reduced apprehension about the changes. The frequent requests for feedback invited input and the system's responsiveness helped teachers and principals see their concerns addressed in system revisions. This made educators feel more connected to and invested in the evaluation system. Identifying ambassadors in every school to serve as communication liaisons for the work further created a broad sense of ownership and gave teachers a colleague who could serve as a resource about the new evaluation.

The system rollout of the observation ratings and value-added rating at the end of the first-year of implementation is a particularly effective example of how to communicate in a way that invites people into the process as collaborators. Teachers did not receive evaluation ratings. Instead they received their individual scores and a distribution of the scores of all teachers in the system with some indications of where cutoff points might be set a year

later when teachers would receive a rating. This approach allowed teachers to discern for themselves how they are performing relative to their peers before being told in the form of an evaluative rating. This approach invites them into the process of their evaluation in a way that gives them the chance to reflect on their year one performance, set goals for their performance in year two and feel a sense of ownership for the rating they will receive in the fall of 2012. It also makes it possible for teachers to predict their rating, which will make the rating, when it finally comes, feel familiar and predictable, rather than something thrust upon them, created in a black box.

5. Anticipate the unanticipated and commit to improvement

Two of Hillsborough's greatest strengths in this work are its organizational stance towards learning and its deep belief in its capacity to figure things out. The system has structures and systems in place to use the learning stance to address problems. These structures support communication and learning and allow the system to quickly identify and address implementation issues - such as the principals being overwhelmed – that had the potential to derail the entire effort. The role of the TAC and the process used to engage them in the work of determining how observations would be assessed and valueadded would be calculated leveraged varied expertise and built strong buy-in and support.

Hillsborough's efforts in implementing a new teacher evaluation system demonstrate both the complexity and possibility of the work and the impact of an unrelenting focus on organizational learning and improvement.

Appendix A – Danielson Domains

Domain 1: Planning and Preparation

- 1a. Demonstrating Knowledge of Content and Pedagogy
- 1b. Demonstrating Knowledge of Students
- 1c. Setting Instructional Outcomes
- 1d. Demonstrating Knowledge of Resources and Technology
- 1e. Designing Coherent Instruction
- 1f. Designing Student Assessments

Domain 2: The Classroom Environment

- 2a. Creating an Environment of Respect and Rapport
- 2b. Establishing a Culture of Learning
- 2c. Managing Classroom Procedures
- 2d. Managing Student Behavior
- 2e. Organizing Physical Space

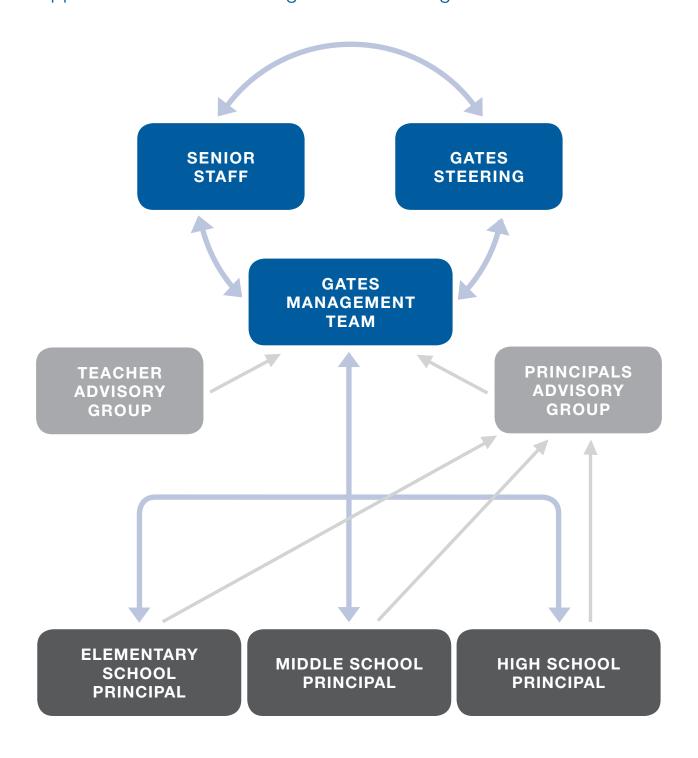
Domain 3: Instruction

- 3a. Communicating with Students
- 3b. Using Questioning and Discussion Techniques
- 3c. Engaging Students in Learning
- 3d. Using Assessment in Instruction
- 3e. Demonstrating Flexibility and Responsiveness

Domain 4: Professional Responsibilities

- 4a. Reflecting on Teaching
- 4b. Maintaining Accurate Records
- 4c. Communicating with Families
- 4d. Participating in a Professional Community
- 4e. Growing and Developing Professionally
- 4f. Showing Professionalism

Appendix B - Grants Management Team Organization Chart



Purpose and Membership of Committees

Principal Councils – Monthly meetings of principals, by level, that focus on professional development and operational issues.

Principal Advisory Committee – Charged with providing input into the design and implementation of the new principal evaluation system; also provides feedback on design and implementation of teacher evaluation system. Committee Chair: David Steele; membership includes principals 7 elementary, 5 middle, 5 high.

Teacher Advisory Committee – Charged with overseeing the design and implementation of the new teacher evaluation system. Membership includes: teachers, peer evaluators, mentors, teachers' union president, Chief Information and Technology Officer, EET Directors.

Gates Management Team – Charged with daily management of the Empowering Effective Teachers initiative. Membership includes: director of assessment and performance management, director of teacher induction, director of evaluation & compensation, director of communications, manager for evaluation and compensation, manager for assessment and performance management.

Gates Steering Committee – Charged with oversight of the Empowering Effective Teachers initiative. Membership includes: superintendent, teachers' union president, Assistant Superintendent for Curriculum and Instruction, Chief Information and Technology Officer, and school board member.

District Senior Staff – Charged with oversight of all the work of the school system. Led by the superintendent. Membership includes: Asst Sup for Curriculum and Instruction, Chief Facilities Officer, Chief Information and Technology Officer, Chief Financial Officer, Deputy Superintendent, Deputy Superintendent/ Human Resources, Asst. Sup for Student Services and Federal Programs, Asst Sup for Administration.

Appendix C – Summaries of Observations

SUMMARY OF ALL COMPLETED OBSERVATIONS						
COMPONENT	REQUIRES ACTION	DEVELOPING	ACCOMPLISHED	EXEMPLARY	NOT OBSERVED	
1a	1.2%	19.9%	66.9%	11.9%	0.1%	
1b	1.2%	26.1%	60.7%	11.4%	0.5%	
1c	2.4%	25.4%	66.6%	5.3%	0.3%	
1d	0.7%	16.2%	66.2%	11.0%	5.9%	
1e	2.6%	32.9%	56.2%	7.7%	0.6%	
1f	2.0%	31.2%	60.3%	3.7%	2.7%	
2a	0.9%	11.1%	72.5%	15.5%	0.0%	
2b	0.9%	18.4%	71.1%	9.5%	0.1%	
2c	1.2%	15.9%	71.2%	11.3%	0.4%	
2d	1.5%	19.4%	71.4%	7.2%	0.5%	
2e	0.6%	13.4%	77.2%	8.5%	0.3%	
3a	4.2%	37.9%	43.4%	14.5%	0.1%	
3b	3.2%	46.4%	45.3%	4.6%	0.5%	
3c	2.8%	46.3%	44.5%	6.4%	0.0%	
3d	1.8%	41.8%	51.4%	3.5%	1.5%	
3e	2.0%	25.6%	59.7%	4.9%	7.8%	
4a	1.2%	17.2%	70.7%	10.8%	0.0%	
OVERALL	1.8%	26.2%	62.1%	8.7%	1.2%	
SUMMARY	11,710	171,475	406,736	57,077	8,143	
Appro	oximate Number of Observa	ations		38,538		

SUMMARY OF ALL COMPLETED OBSERVATIONS CONDUCTED BY PEERS					
COMPONENT	REQUIRES ACTION	DEVELOPING	ACCOMPLISHED	EXEMPLARY	NOT OBSERVED
1a	1.3%	19.9%	68.9%	9.8%	0.0%
1b	1.1%	25.4%	62.4%	10.7%	0.4%
1c	2.1%	23.2%	70.5%	4.1%	0.1%
1d	0.6%	12.9%	70.2%	11.7%	4.7%
1e	2.3%	33.5%	56.9%	6.9%	0.3%
1f	1.8%	31.0%	63.4%	2.7%	1.1%
2 a	0.8%	10.0%	77.1%	12.0%	0.1%
2b	0.9%	17.9%	72.6%	8.5%	0.1%
2c	0.8%	14.7%	75.0%	9.1%	0.5%
2d	1.3%	17.4%	76.4%	4.5%	0.4%
2e	0.6%	12.7%	80.1%	6.5%	0.2%
3a	3.7%	40.7%	42.5%	13.0%	0.1%
3b	2.8%	48.6%	44.9%	3.2%	0.5%
3c	2.7%	50.1%	42.6%	4.5%	0.0%
3d	1.4%	42.5%	52.4%	2.9%	0.8%
3e	1.7%	23.6%	62.1%	3.4%	9.2%
4a	1.3%	17.5%	71.1%	10.0%	0.0%
OVERALL	1.6%	26.0%	64.0%	7.3%	1.1%
SUMMARY	5,348	86,766	213,770	24,305	3,599
Appro	ximate Number of Observ	ations	19,635		

SUM	SUMMARY OF ALL COMPLETED OBSERVATIONS CONDUCTED BY PRINCIPALS					
COMPONENT	REQUIRES ACTION	DEVELOPING	ACCOMPLISHED	EXEMPLARY	NOT OBSERVED	
1 a	1.0%	17.0%	66.3%	15.5%	0.2%	
1b	1.3%	24.6%	60.7%	12.7%	0.6%	
1c	2.4%	25.4%	64.5%	7.1%	0.6%	
1d	0.9%	17.2%	63.5%	10.6%	7.8%	
1e	2.5%	29.6%	57.8%	9.2%	0.9%	
1f	2.0%	28.2%	60.1%	5.1%	4.7%	
2 a	0.7%	10.4%	68.1%	20.8%	0.0%	
2b	0.8%	16.7%	71.0%	11.4%	0.1%	
2c	1.4%	15.5%	68.1%	14.8%	0.2%	
2d	1.4%	18.8%	68.1%	11.2%	0.6%	
2e	0.5%	13.2%	74.5%	11.3%	0.5%	
3a	3.9%	33.0%	45.9%	17.1%	0.1%	
3b	3.3%	41.5%	47.9%	6.8%	0.5%	
3c	2.4%	39.4%	48.9%	9.3%	0.0%	
3d	2.0%	37.8%	53.2%	4.6%	2.4%	
3e	2.0%	24.3%	59.8%	7.0%	6.8%	
4a	1.0%	15.0%	71.3%	12.7%	0.0%	
OVERALL	1.7%	24.0%	61.7%	11.0%	1.5%	
SUMMARY	4,907	68,167	175,474	31,311	4,349	
Appro	ximate Number of Observ	ations		16,718		

su	MMARY OF ALL CO	OMPLETED OBSE	RVATIONS COND	JCTED BY MENT	ORS
COMPONENT	REQUIRES ACTION	DEVELOPING	ACCOMPLISHED	EXEMPLARY	NOT OBSERVED
1a	2.7%	40.7%	53.3%	3.4%	0.0%
1b	1.6%	44.2%	45.7%	8.2%	0.2%
1c	4.6%	44.3%	49.5%	1.4%	0.3%
1d	1.0%	36.7%	52.2%	8.0%	2.1%
1e	5.9%	51.7%	38.9%	2.7%	0.9%
1f	4.4%	56.1%	36.7%	1.3%	1.6%
2 a	2.6%	25.9%	64.4%	7.0%	0.0%
2b	1.6%	36.7%	57.6%	4.1%	0.0%
2c	3.3%	29.7%	61.1%	5.5%	0.3%
2d	4.3%	41.4%	51.5%	2.7%	0.1%
2e	1.0%	22.5%	71.8%	4.6%	0.2%
3a	10.7%	48.8%	32.4%	8.1%	0.0%
3b	6.7%	64.1%	28.1%	0.9%	0.3%
3c	6.3%	64.2%	27.6%	1.9%	0.0%
3d	4.3%	65.3%	29.2%	1.0%	0.3%
3e	4.1%	52.9%	38.3%	2.0%	2.7%
4a	1.4%	31.9%	62.5%	4.2%	0.0%
OVERALL	3.9%	44.5%	47.1%	3.9%	0.5%
SUMMARY	1,455	16,542	17,492	1,461	195
Appro	ximate Number of Observ	ations		2,185	

Appendix D – Five-Star Report

	illsboroug JBLIC SC Ewellence in ?	CHOOLS	Student Test Data School Year 201		R	ate Refresh eport No Tf port For: Doe, J	
Employee ID:	999999	Employee Name:	Doe, Jane				
School Number:	9999	School Name:	BASKINS ELEMENTARY				
Period:	30	Course ID/Title:	5012050 - MATH GR 03			ourse Length:	
Students Eligible		Students Ineligible			To	otal Student C	CONTRACTOR CONTRACTOR
STUDENT INF	ORMATION	ENROLLMENT	PRE-MEA	SURES*		POST-TESTS	5
Student ID:	123255	Oct 15th Survey 2: V	Test Name	Score	Test Name	Score	Indicator
Last Name:	LAST NAME 24	Jan 14th Survey 8: √	Pretest Missing		1011S2-Math-ES-Grade 3 End		
First Name:	FIRST NAME 24	Semester 1 Elig.: Yes			of Year	23	
Grade Level:	03	Feb 11th Survey 3: √			FCAT MATH 2	295	
Stu. MAP Elig.:		May 6th Survey 8: √					
Inelig. Reason:		Semester 2 Elig.: Yes					
	100000	Oct 15th Survey 2: √	Test Name	Score	Test Name	Score	Indicator
Student ID:	123090	Jan 14th Survey 6: √	STANFORD10 MATH	acore 83			
Last Name:	LAST NAME 4	Semester 1 Elig.: Yes	STATE ON DID HATTI	03	FCAT MATH 2	326	***
First Name:	FIRST NAME 4	Feb 11th Survey 3: √					
Grade Level:	03	May 6th Survey 8: √					
Stu. MAP Elig.:		Semester 2 Elig.: Yes					
Inelig. Reason:	-	Semester 2 Eng., Tes					
Student ID:	123066	Oct 15th Survey 2: √	Test Name	Score	Test Name	Score	Indicator
Last Name:	LAST NAME 8	Jan 14th Survey 6: √	STANFORD10 MATH	38	1011S2-Math-ES-Grade 3 End of Year	24	****
First Name:	FIRST NAME 8	Semester 1 Elig.: Yes			FCAT MATH 2		****
Grade Level:	03	Feb 11th Survey 3: V			rual Main2	313	****
Stu. MAP Elig.:	Yes	May 6th Survey 8: √					
Inelig. Reason:		Semester 2 Elig.: Yes					
Student ID:	123948	Oct 15th Survey 2: √	Test Name	Score	Test Name	Score	Indicator
Last Name:	LAST NAME 12	Jan 14th Survey 6: √	STANFORD10 MATH	38	1011S2-Math-ES-Grade 3 End		****
First Name:	FIRST NAME 12	Semester 1 Elig.: Yes			of Year	20	Allen and a service of the
Grade Level:	03	Feb 11th Survey 3: √			FCAT MATH 2	315	****
Stu. MAP Elig.:		May 6th Survey 8: √					
Inelig. Reason:		Semester 2 Elig.: Yes					
Student ID:	123440	Oct 15th Survey 2: √	Test Name	Score	Test Name	Score	Indicator
Last Name:	LAST NAME 10	Jan 14th Survey 6: X	STANFORD10 MATH	99	1011S2-Math-ES-Grade 3 End		****
First Name:	FIRST NAME 10	Semester 1 Elig.: No			of Year	30	
Grade Level:	03	Feb 11th Survey 3: X			FCAT MATH 2	373	在在在在本
Stu. MAP Elig.:		May 6th Survey 8: X			76		
		Semester 2 Elig.: No	•				
inelig. Reason:	225	Oct 15th Survey 2: √	Test Name	Score	Test Name	Score	Indicator
	122252				1011S2-Math-ES-Grade 3 End		
Student ID:	123352	Jan 14th Survey 6: √	Pretest Missing				
Student ID: Last Name:	LAST NAME 28		Pretest Missing	- 10	of Year	13	
Student ID: Last Name: First Name:	LAST NAME 28 FIRST NAME 28	Semester 1 Elig.: Yes	Pretest Missing		of Year FCAT MATH 2	13 258	
Inelig. Reason: Student ID: Last Name: First Name: Grade Level: Stu. MAP Elig.:	LAST NAME 28 FIRST NAME 28 03		Pretest Missing				



Student Test Data Validation School Year 2010-2011

Date Refreshed: 12/12/11 Report No TF1310

Employee ID:	999999	Employee Name:	Doe, Jane				
ichool Number:	9999	School Name:	BASKINS ELEMENTARY				Mark
eriod:	30	Course ID/Title:	5012050 - MATH GR 03			rse Length:	
students Eligible:	9	Students Ineligible			2122000	Student C	
STUDENT INFO	RMATION	ENROLLMENT	PRE-MEA	SURES*	P	OST-TESTS	S .
Student ID:	123226	Oct 15th Survey 2: √	Test Name	Score	Test Name	Score	Indicator
	LAST NAME 20	Jan 14th Survey 6: √	STANFORD10 MATH	51	1011S2-Math-ES-Grade 3 End of Year	20	****
First Name:	FIRST NAME 20	Semester 1 Elig.: Yes			FCAT MATH 2	10000000	****
Grade Level:	03	Feb 11th Survey 3: √			rual Mainz	319	* * * H
Stu. MAP Elig.: Yes	Yes	May 6th Survey 8: √	č.				
Inelig. Reason:	-	Semester 2 Elig.: Yes					
25.135.23.28.05		0.455 0 - 0 -1	T N		7		In Easter
	123254	Oct 15th Survey 2: √ Jan 14th Survey 6: √	Test Name STANFORD10 MATH	Score 20	Test Name 1011S2-Math-ES-Grade 3 End	Score	Indicator
	LAST NAME 16	Jan 14th Survey 6: √ Semester 1 Elig.: Yes	STANFORDTO MATH	20	of Year	16	****
	FIRST NAME 16	Feb 11th Survey 3: √			FCAT MATH 2	258	****
	03	May 6th Survey 8: √				200	
Stu. MAP Elig.:		Semester 2 Elig.: Yes	fit in the second secon				
Inelig. Reason:	-	Schrester & Ling., 165					
Student ID:	123673	Oct 15th Survey 2: √	Test Name	Score	Test Name	Score	Indicator
	LAST NAME 18	Jan 14th Survey 6: √	STANFORD10 MATH	2	1011S2-Math-ES-Grade 3 End	4.00	
		Semester 1 Elig.: Yes		-	of Year	14	****
	FIRST NAME 18	Feb 11th Survey 3: √			FCAT MATH 2	336	****
Stu. MAP Elig.:		May 6th Survey 8: √					
Inelig. Reason:		Semester 2 Elig.: Yes	ti e				
meng. Reason.	-						
	50000 P.C.						
Student ID:	122707	Oct 15th Survey 2: V	Test Name	Score	Test Name	Score	Indicator
	123797	Oct 15th Survey 2: √ Jan 14th Survey 6: √	Test Name STANFORD10 MATH	Score 74	Test Name 1011S2-Math-ES-Grade 3 End	Score	Indicator
Last Name:	LAST NAME 6	Oct 15th Survey 2: Jan 14th Survey 6: Semester 1 Elig.: Yes	177721111111111111111111111111111111111	Score 74		Score 27	****
Last Name: First Name:	LAST NAME 6 FIRST NAME 6	Jan 14th Survey 6: √	177721111111111111111111111111111111111		1011S2-Math-ES-Grade 3 End		Indicator ************************************
Last Name: First Name: Grade Level:	LAST NAME 6 FIRST NAME 6 03	Jan 14th Survey 6: √ Semester 1 Elig.: Yes	177721111111111111111111111111111111111		1011S2-Math-ES-Grade 3 End of Year	27	****
Last Name: First Name: Grade Level: Stu. MAP Elig.:	LAST NAME 6 FIRST NAME 6 03 Yes	Jan 14th Survey 6: √ Semester 1 Elig.: Yes Feb 11th Survey 3: √	177721111111111111111111111111111111111		1011S2-Math-ES-Grade 3 End of Year	27	****
Last Name: First Name: Grade Level: Stu. MAP Elig.:	LAST NAME 6 FIRST NAME 6 03 Yes	Jan 14th Survey 6: √ Semester 1 Elig.: Yes Feb 11th Survey 3: √ May 6th Survey 8: √	177721111111111111111111111111111111111		1011S2-Math-ES-Grade 3 End of Year	27	****
Last Name: First Name: Grade Level: Stu. MAP Elig.: Inelig. Reason:	LAST NAME 6 FIRST NAME 6 03 Yes	Jan 14th Survey 6: √ Semester 1 Elig.: Yes Feb 11th Survey 3: √ May 6th Survey 8: √	177721111111111111111111111111111111111		1011S2-Math-ES-Grade 3 End of Year FCAT MATH 2 Test Name	27	****
Last Name: First Name: Grade Level: Stu. MAP Elig.: Inelig. Reason:	LAST NAME 6 FIRST NAME 6 03 Yes	Jan 14th Survey 6: √ Semester 1 Elig.: Yes Feb 11th Survey 3: √ May 6th Survey 8: √ Semester 2 Elig.: Yes Oct 15th Survey 2: √ Jan 14th Survey 6: √	STANFORD10 MATH	74	1011S2-Math-ES-Grade 3 End of Year FCAT MATH 2 Test Name 1011S2-Math-ES-Grade 3 End	27 357 Score	****
Last Name: First Name: Grade Level: Stu. MAP Elig.: Inelig. Reason: Student ID: Last Name:	LAST NAME 6 FIRST NAME 6 03 Yes 123087	Jan 14th Survey 6: √ Semester 1 Elig.: Yes Feb 11th Survey 3: √ May 6th Survey 8: √ Semester 2 Elig.: Yes Oct 15th Survey 2: √ Jan 14th Survey 6: √ Semester 1 Elig.: Yes	STANFORD10 MATH Test Name	74 Score	1011S2-Math-ES-Grade 3 End of Year FCAT MATH 2 Test Name 1011S2-Math-ES-Grade 3 End of Year	27 357 Score 12	*************************************
Last Name: First Name: Grade Level: Stu. MAP Elig.: Inelig. Reason: Student ID: Last Name: First Name:	LAST NAME 6 FIRST NAME 6 03 Yes 123087 LAST NAME 3	Jan 14th Survey 6: √ Semester 1 Elig.: Yes Feb 11th Survey 3: √ May 6th Survey 8: √ Semester 2 Elig.: Yes Oct 15th Survey 2: √ Jan 14th Survey 6: √ Semester 1 Elig.: Yes Feb 11th Survey 3: √	STANFORD10 MATH Test Name	74 Score	1011S2-Math-ES-Grade 3 End of Year FCAT MATH 2 Test Name 1011S2-Math-ES-Grade 3 End	27 357 Score	*************************************
Last Name: First Name: Grade Level: Stu. MAP Elig.: Inelig. Reason: Student ID: Last Name: First Name:	LAST NAME 6 FIRST NAME 6 03 Yes 123087 LAST NAME 3 FIRST NAME 3 03	Jan 14th Survey 6: √ Semester 1 Elig.: Yes Feb 11th Survey 3: √ May 6th Survey 8: √ Semester 2 Elig.: Yes Oct 15th Survey 2: √ Jan 14th Survey 6: √ Semester 1 Elig.: Yes Feb 11th Survey 3: √ May 6th Survey 8: √	STANFORD10 MATH Test Name	74 Score	1011S2-Math-ES-Grade 3 End of Year FCAT MATH 2 Test Name 1011S2-Math-ES-Grade 3 End of Year	27 357 Score 12	*************************************
Last Name: First Name: Grade Level: Stu. MAP Elig.: Inelig. Reason: Student ID: Last Name: First Name: Grade Level: Stu. MAP Elig.:	LAST NAME 6 FIRST NAME 6 03 Yes 123087 LAST NAME 3 FIRST NAME 3 03 Yes	Jan 14th Survey 6: √ Semester 1 Elig.: Yes Feb 11th Survey 3: √ May 6th Survey 8: √ Semester 2 Elig.: Yes Oct 15th Survey 2: √ Jan 14th Survey 6: √ Semester 1 Elig.: Yes Feb 11th Survey 3: √	STANFORD10 MATH Test Name	74 Score	1011S2-Math-ES-Grade 3 End of Year FCAT MATH 2 Test Name 1011S2-Math-ES-Grade 3 End of Year	27 357 Score 12	*************************************
Last Name: First Name: Grade Level: Stu. MAP Elig.: Inelig. Reason: Student ID: Last Name: First Name: Grade Level: Stu. MAP Elig.: Inelig. Reason:	LAST NAME 6 FIRST NAME 6 03 Yes 123087 LAST NAME 3 FIRST NAME 3 Yes	Jan 14th Survey 6: √ Semester 1 Elig.: Yes Feb 11th Survey 3: √ May 6th Survey 8: √ Semester 2 Elig.: Yes Oct 15th Survey 2: √ Jan 14th Survey 6: √ Semester 1 Elig.: Yes Feb 11th Survey 3: √ May 6th Survey 8: √ Semester 2 Elig.: Yes	Test Name FCAT MATH	Score	1011S2-Math-ES-Grade 3 End of Year FCAT MATH 2 Test Name 1011S2-Math-ES-Grade 3 End of Year FCAT MATH 2	27 357 Score 12 229	*************************************
Last Name: First Name: Grade Level: Stu. MAP Elig.: Inelig. Reason: Student ID: Last Name: First Name: Grade Level: Stu. MAP Elig.: Inelig. Reason: Student ID:	LAST NAME 6 FIRST NAME 6 03 Yes 123087 LAST NAME 3 FIRST NAME 3 03 Yes	Jan 14th Survey 6: √ Semester 1 Elig.: Yes Feb 11th Survey 3: √ May 6th Survey 8: √ Semester 2 Elig.: Yes Oct 15th Survey 6: √ Semester 1 Elig.: Yes Feb 11th Survey 8: √ Semester 2 Elig.: Yes Oct 15th Survey 2: √	Test Name FCAT MATH Test Name	Score 131	1011S2-Math-ES-Grade 3 End of Year FCAT MATH 2 Test Name 1011S2-Math-ES-Grade 3 End of Year FCAT MATH 2 Test Name	27 357 Score 12	*************************************
Last Name: First Name: Grade Level: Stu. MAP Elig.: Inelig. Reason: Student ID: Last Name: First Name: Grade Level: Stu. MAP Elig.: Inelig. Reason: Student ID: Last Name:	LAST NAME 6 FIRST NAME 6 03 Yes 123087 LAST NAME 3 FIRST NAME 3 Yes	Jan 14th Survey 6: √ Semester 1 Elig.: Yes Feb 11th Survey 3: √ May 6th Survey 8: √ Semester 2 Elig.: Yes Oct 15th Survey 2: √ Jan 14th Survey 3: √ Semester 1 Elig.: Yes Feb 11th Survey 8: √ Semester 2 Elig.: Yes Oct 15th Survey 2: √ Jan 14th Survey 6: √	Test Name FCAT MATH	Score	1011S2-Math-ES-Grade 3 End of Year FCAT MATH 2 Test Name 1011S2-Math-ES-Grade 3 End of Year FCAT MATH 2	27 357 Score 12 229	*************************************
Last Name: First Name: Grade Level: Stu. MAP Elig.: Inelig. Reason: Student ID: Last Name: First Name: Grade Level: Stu. MAP Elig.: Inelig. Reason: Student ID: Last Name: First Name: First Name:	LAST NAME 6 FIRST NAME 6 03 Yes 123087 LAST NAME 3 FIRST NAME 3 Yes 123982 LAST NAME 14 FIRST NAME 14	Jan 14th Survey 6: √ Semester 1 Elig.: Yes Feb 11th Survey 3: √ May 6th Survey 8: √ Semester 2 Elig.: Yes Oct 15th Survey 2: √ Jan 14th Survey 3: √ Semester 1 Elig.: Yes Oct 15th Survey 8: √ Semester 2 Elig.: Yes Oct 15th Survey 2: √ Jan 14th Survey 6: √ Semester 1 Elig.: Yes	Test Name FCAT MATH Test Name	Score 131	Test Name 1011S2-Math-ES-Grade 3 End of Year FCAT MATH 2 Test Name 1011S2-Math-ES-Grade 3 End of Year FCAT MATH 2 Test Name 1011S2-Math-ES-Grade 3 End	27 357 Score 12 229	*************************************
Last Name: First Name: Grade Level: Stu. MAP Elig.: Inelig. Reason: Student ID: Last Name: First Name: Grade Level: Stu. MAP Elig.: Inelig. Reason: Student ID: Last Name: First Name:	LAST NAME 6 FIRST NAME 6 03 Yes 123087 LAST NAME 3 FIRST NAME 3 Yes 123982 LAST NAME 14 FIRST NAME 14 03	Jan 14th Survey 6: √ Semester 1 Elig.: Yes Feb 11th Survey 3: √ May 6th Survey 8: √ Semester 2 Elig.: Yes Oct 15th Survey 2: √ Jan 14th Survey 3: √ Semester 1 Elig.: Yes Feb 11th Survey 8: √ Semester 2 Elig.: Yes Oct 15th Survey 2: √ Jan 14th Survey 6: √	Test Name FCAT MATH Test Name	Score 131	1011S2-Math-ES-Grade 3 End of Year FCAT MATH 2 Test Name 1011S2-Math-ES-Grade 3 End of Year FCAT MATH 2 Test Name 1011S2-Math-ES-Grade 3 End of Year	27 357 Score 12 229 Score 18	****** ***** Indicator ***** **** Indicator



Student Test Data Validation School Year 2010-2011

Date Refreshed: 12/12/11 Report No TF1310

3333	99	Employee Name:	Doe, Jane
		MANAGER STATE	Report Legend
Elig	Reason.	Explanation	SARRAMENTO S
No	Enroll	The student is ineligible	e because of enrollment.
No	PreTest	The student is ineligible	e because he/she does not have any eligible Pre-Measures for this course.
No	PostTest	The student is ineligible	e because he/she does not have any eligible Post-Tests for this course.
No	Multi	The student is ineligible	e for more than one of the reasons listed above.
	The foll	owing pre-measur	es are being used as predictors for all students
	ath/Read Ach pulation dens		ELL Status, Age compared to Cohort, Previous Year's Attendance,
			ELL Status, Age compared to Cohort, Previous Year's Attendance, Star Ratings
Mobility, Po			Star Ratings
Mobility, Po		ity	Star Ratings Prediction.
Mobility, Po * * * * * * * * * *		Student Far Exceeds	Star Ratings Prediction. ediction.
		Student Far Exceeds I Student Exceeded Pre	Star Ratings Prediction. diction.

Appendix E - Teacher Evaluation Score Report

Adj Pts

0.6000

4.0500

0.3750 1.1250 0.5625 4.3125

0.19

0.38

0.38

0.4500 0.9000

0.3000

0.15

0.15 0.30

0.30



Page: 2

Report Date: 10/27/2011

Multiplier **Total Evaluation Score** Principal Score Peer/Mentor Component Weight 10.00% 25.00% 22.50% 20.00% 20.00% 10.00% 20.00% 20.00% 25.00% 12.50% 12.50% 22.50% 22.50% 22.50% 10.00% 15.00% 15.00% 20.00% 15.00% 15.00% 25.00% 20.00% TEACHER EVALUATION SCORE REPORT 2010-2011 Domain Weight 20% 0=Requires Action 1=Developing 2=Accomplished Value Add Score 3=Exemplary Domain 3 Domain 4 30 44 Key: 1.2500 2.2500 0.5000 1.0000 0.5000 5.0000 1.2500 0.6250 0.6250 5.0000 3.3750 2.2500 2.2500 1.0000 0.5000 1.2500 Adj Pts Multiplier 0.25 1.13 0.50 0.25 0.63 0.31 1.13 Peer/Mentor Score Principal Score Peer/Mentor Component Weight 20.00% 10.00% 10.00% 20.00% 25.00% 12.50% 25.00% 22.50% 22.50% 22.50% 22.50% 20.00% 20.00% 25.00% 12.50% 10.00% 3431 Plant City Senior High

20%

Domain 2

S 8

40%

Domain 3

35 35

10,8000 2.4000

77.51

25.14

Peer/Mentor Score

21.13

1.3500

0.68 0.68

0.68

2.0250 1.3500 0.9000

6.9750

1.3500

1.2000 1.8000 1.8000 1.2000

0.60 0.60

2.4000

0.80

09.0

 \Box

Teacher Name:

Domain Weight 20%

Domain 1

4 2 2 4 4 4

Hillsborough County
PUBLIC SCHOOLS
Carolline in Education

Appendix F – Distribution of Scores

	DISTRIBUTION OF WRITTEN EVALUATION SCORES					
RANGE	FREQUENCY					
58.01 – 60	5					
56.01 – 58	10					
54.01 – 56	21					
52.01 – 54	54					
50.01 - 52	128					
48.01 – 50	271					
46.01 – 48	448					
44.01 – 46	662					
42.01 – 44	1,088					
40.01 – 42	1,325	About 34% scored above 40				
38.01 – 40	1,506	A score of 40 is equivalent to being rated				
36.01 – 38	1,286	'Accomplished' in all areas.				
34.01 – 36	1,079					
32.01 – 34	948					
30.01 – 32	790	About 82% scored above 30				
28.01 – 30	630					
26.01 – 28	543					
24.01 – 26	389					
22.01 – 24	218					
20.01 – 22	134	About 98% scored above 20				
18.01 – 20	89	A score of 20 is equivalent to being rated				
16.01 – 18	59	'Developing' in all areas.				
14.01 – 16	38					
12.01 – 14	18					
10.01 – 12	18					
8.01 – 10	10					
6.01 – 8	1					
4.01 – 6	3					
2.01 – 4	2					
0.01 – 2	0					

	DISTRIBUTION	OF VALUE-ADDED SCORES
RANGE	FREQUENCY	
38.01 – 40	8	
36.01 – 38	12	
34.01 – 36	46	
32.01 – 34	133	
30.01 – 32	351	
28.01 – 30	822	About 12% scored above 28
26.01 –28	1,859	
24.01 – 26	3,036	About 53% scored above 24
22.01 – 24	2,890	
20.01 – 22	1,628	About 92% scored above 20
18.01 – 20	666	
16.01 – 18	209	About 99% scored above 16
14.01 – 16	68	
12.01 – 14	27	
10.01 – 12	12	
8.01 – 10	1	
6.01 – 8	3	
4.01 – 6	2	
2.01 – 4	0	
0.01 – 2	0	

## RANCE FREQUENCY		DISTRIBU [*]	TION OF TOTAL SCORES
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76.5 - 77.49 88 75.5 - 76.49 96 74.5 - 75.49 140 73.5 - 74.49 162 72.5 - 73.49 202 71.5 - 72.49 257 70.5 - 71.49 307 69.5 - 70.49 327 68.8 - 69.49 365 67.5 - 68.49 451 66.5 - 67.49 488 65.5 - 66.49 540 64.5 - 65.49 541 63.5 - 64.49 553 62.5 - 63.49 557 61.5 - 62.49 559 About 50% scored above 61.5 About 50% scored above 61.5 About 50% scored above 61.5	78.5 – 79.49	56	
75.5 - 76.49 96 74.5 - 75.49 140 73.5 - 74.49 162 72.5 - 73.49 202 71.5 - 72.49 257 70.5 - 71.49 307 69.5 - 70.49 327 68.8 - 69.49 365 67.5 - 68.49 451 66.5 - 67.49 488 65.5 - 66.49 540 64.5 - 65.49 541 63.5 - 64.49 553 62.5 - 63.49 597 60.5 - 61.49 555 59.5 - 60.49 501 58.5 - 59.49 468 57.5 - 58.49 453 56.5 - 57.49 425 55.5 - 56.49 424	77.5 – 78.49	84	
74.5 - 75.49 140 73.5 - 74.49 162 72.5 - 73.49 202 71.5 - 72.49 257 70.5 - 71.49 307 69.5 - 70.49 327 68.8 - 69.49 365 67.5 - 68.49 451 66.5 - 67.49 488 65.5 - 66.49 540 64.5 - 65.49 541 63.5 - 64.49 553 62.5 - 63.49 557 60.5 - 61.49 555 59.5 - 60.49 501 58.5 - 59.49 468 57.5 - 58.49 453 56.5 - 57.49 425 55.5 - 56.49 424	76.5 – 77.49	88	
73.5 - 74.49 162 72.5 - 73.49 202 71.5 - 72.49 257 70.5 - 71.49 307 69.5 - 70.49 327 68.8 - 69.49 365 67.5 - 68.49 451 65.5 - 66.49 540 64.5 - 65.49 541 63.5 - 64.49 553 62.5 - 63.49 555 60.5 - 61.49 555 59.5 - 60.49 501 58.5 - 59.49 468 57.5 - 58.49 453 56.5 - 57.49 425 55.5 - 56.49 424	75.5 – 76.49	96	
72.5 - 73.49 202 71.5 - 72.49 257 About 11% scored above 71.5 70.5 - 71.49 307 69.5 - 70.49 327 68.8 - 69.49 365 67.5 - 68.49 451 About 23% scored above 67.5 About 50% scored above 61.5 About 50% scored above 61.5	74.5 – 75.49	140	
71.5 - 72.49 257 70.5 - 71.49 307 69.5 - 70.49 327 68.8 - 69.49 365 67.5 - 68.49 451 About 23% scored above 67.5 About 50% scored above 67.5 About 50% scored above 61.5	73.5 – 74.49	162	
70.5 - 71.49 307 69.5 - 70.49 327 68.8 - 69.49 365 67.5 - 68.49 451 66.5 - 67.49 488 65.5 - 66.49 540 64.5 - 65.49 553 62.5 - 63.49 559 61.5 - 62.49 559 60.5 - 61.49 555 59.5 - 60.49 501 58.5 - 59.49 468 57.5 - 58.49 453 56.5 - 57.49 425 55.5 - 56.49 424	72.5 – 73.49	202	
69.5 - 70.49 68.8 - 69.49 68.8 - 69.49 67.5 - 68.49 451 About 23% scored above 67.5 66.5 - 67.49 488 65.5 - 66.49 540 64.5 - 65.49 553 62.5 - 63.49 555 60.5 - 61.49 555 59.5 - 60.49 501 58.5 - 59.49 468 57.5 - 58.49 425 55.5 - 56.49 424	71.5 – 72.49	257	About 11% scored above 71.5
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67.5 - 68.49 451 66.5 - 67.49 488 65.5 - 66.49 540 64.5 - 65.49 553 62.5 - 63.49 559 61.5 - 62.49 559 60.5 - 61.49 555 59.5 - 60.49 501 58.5 - 59.49 468 57.5 - 58.49 425 55.5 - 56.49 424	69.5 – 70.49	327	
66.5 - 67.49 488 65.5 - 66.49 540 64.5 - 65.49 541 63.5 - 64.49 553 62.5 - 63.49 557 61.5 - 62.49 559 About 50% scored above 61.5 60.5 - 61.49 555 59.5 - 60.49 501 58.5 - 59.49 468 57.5 - 58.49 453 56.5 - 57.49 425 55.5 - 56.49 424	68.8 – 69.49	365	
65.5 - 66.49 540 64.5 - 65.49 541 63.5 - 64.49 553 62.5 - 63.49 557 61.5 - 62.49 559 About 50% scored above 61.5 60.5 - 61.49 555 59.5 - 60.49 501 58.5 - 59.49 468 57.5 - 58.49 453 56.5 - 57.49 425 55.5 - 56.49 424		451	About 23% scored above 67.5
64.5 - 65.49 553 63.5 - 64.49 553 62.5 - 63.49 557 61.5 - 62.49 559 About 50% scored above 61.5 60.5 - 61.49 555 59.5 - 60.49 501 58.5 - 59.49 468 57.5 - 58.49 453 56.5 - 57.49 425 55.5 - 56.49 424	66.5 – 67.49	488	
63.5 - 64.49 553 62.5 - 63.49 537 61.5 - 62.49 559 About 50% scored above 61.5 60.5 - 61.49 555 59.5 - 60.49 501 58.5 - 59.49 468 57.5 - 58.49 453 56.5 - 57.49 425 55.5 - 56.49 424			
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60.5 - 61.49 555 59.5 - 60.49 501 58.5 - 59.49 468 57.5 - 58.49 453 56.5 - 57.49 425 55.5 - 56.49 424			About 500/ populations 04.5
59.5 - 60.49 501 58.5 - 59.49 468 57.5 - 58.49 453 56.5 - 57.49 425 55.5 - 56.49 424			ADOUT 50% Scored above 61.5
58.5 - 59.49 468 57.5 - 58.49 453 56.5 - 57.49 425 55.5 - 56.49 424			
57.5 - 58.49 453 56.5 - 57.49 425 55.5 - 56.49 424			
56.5 - 57.49 425 55.5 - 56.49 424			
55.5 – 56.49 424			
About 11 /0 Scored above of to			About 77% scored above 54.5
53.5 – 54.49 341			AND MET 17 /0 GOOTER AND VO OTIO
52.5 – 53.49 303			
51.5 - 52.49 262			
50.5 – 51.49 258			
49.5 – 50.49 221	49.5 – 50.49	221	

	DISTRIBU [*]	TION OF TOTAL SCORES
RANGE	FREQUENCY	
48.5 – 49.49	203	
47.5 – 48.49	172	
46.5 – 47.49	152	
45.5 – 46.49	121	
44.5 – 45.49	119	
43.5 – 44.49	75	
42.5 – 43.49	73	
41.5 – 42.49	78	
40.5 – 41.49	59	
39.5 – 40.49	27	
38.5 – 39.49	37	
37.5 – 38.49	25	
36.5 – 37.49	25	About 99% scored above 36.5
35.5 – 36.49	18	About 99% Scored above 30.5
34.5 – 35.49	19	
33.5 – 34.49	23	
32.5 – 33.49 31.5 –32.49	12 7	
30.5 –31.49		
	5	
29.5 - 30.49 28.5 - 29.49	8	
	7	
27.5 –28.49	2	
26.5 - 27.49	2	
25.5 – 26.49	1	
24.5 – 25.49	1	
23.5 – 24.49	0	
22.5 -23.49		
21.5 – 22.49	1	
20.5 – 21.49	1	
19.5 – 20.49 18.5 – 19.49		
	0	
17.5 – 18.49	0	
16.5 – 17.49 15.5 – 16.49		
15.5 – 16.49 14.5 – 15.49	0	
13.5 – 14.49	0	
12.5 – 13.49	0	
11.5 – 12.49	0	
10.5 – 11.49	0	
9.5 – 10.49	0	
8.5 - 9.49	1	
7.5 – 8.49	0	
6.5 – 7.49	0	
5.5 – 6.49	0	
4.5 – 5.49	0	
3.5 – 4.49	0	
2.5 – 3.49	0	
1.5 – 2.49	0	
0.5 – 1.49	0	
> 0 - 0.49	0	
> 0 = 0.49	U	



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