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# THE IMPACT OF CLASSROOM OBSERVATIONS AND COLLABORATIVE FEEDBACK ON EVALUATION OF TEACHER PERFORMANCE, BASED ON THE DANIELSON *FRAMEWORK FOR TEACHING*

by

# **CHRISTINE L. HOFER**

# DISSERTATION

Submitted to the Graduate School

of Wayne State University,

Detroit, Michigan

in partial fulfillment of the requirements

for the degree of

# **DOCTOR OF PHILOSOPHY**

2016

MAJOR: EDUCATION

Approved By:

Advisor

Date

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2016

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# DEDICATION

This work is dedicated to my mother, Patricia Margaret Cherry.

An educator at heart, she instilled in me a drive to make a positive difference in the

world, and her example and influence is ever-present.

She aimed for perfection, settled upon excellence.

Patricia Margaret Cherry taught me how to live life, to achieve dreams, and to love

others.

Hers, a life too short, worth emulating.

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## **CHAPTER 1 INTRODUCTION**

The political landscape has changed dramatically during the recent past, particularly as it pertains to public education. Neighborhood schools, one of the hallmarks of American public education, are not necessarily the norm today, as parents choose between their local school, charter schools, private schools, cyber schools and schools of choice. We have entered into an era of choice, competition, and accountability, emulating the business model. The line between public education and business is no longer clear, and laws are changing rapidly to obscure the line even further. The changes with respect to public education impact all aspects of the system, including funding, accountability, certification of teachers and administrators, student accountability, special education, and teacher tenure and evaluation.

One significant development involves the method in which teachers are evaluated, including the measures and tools that are used. Many states, including Michigan, now require that teachers are observed multiple times a year by administrators, and also tie student achievement data to teacher evaluations. Laws have changed to allow for the relatively quick removal of teachers who are ineffective, or whose students do not show adequate achievement. In Michigan, teacher evaluation has traditionally been an item bargained by local unions and districts, but recent legislation has made this practice non-negotiable (Legislative Council, 2011). There now exist stipulations in the law that specify how teachers are evaluated, and require that teacher evaluations be used when considering lay-offs, as opposed to the long-held practice of laying off by seniority. The issues involving the implementation of high-stakes evaluation systems pose a number of

challenges. Even as districts throughout the state work feverishly to comply with recent legislation, further legislation is being passed, signed into law and taking effect. There is little direction given to districts, and no time to research or adequately plan for new systems. Despite the "tremendous activity at the policy level, the reality is that most states have barely begun to implement these new systems" (National Council on Teacher Quality, 2015). Additionally, there has been very little research examining how these policy changes are translating into actual practice and whether or not there has been any impact on teacher effectiveness.

## **Statement of the Problem**

It seems a simple notion – more effective teachers will produce higher achieving students compared to their less effective counterparts. Few people will disagree with the idea that teachers should be held accountable for the students' learning. The crux of the debate revolves around the *process* that is employed (the accountability tool and its consequences) to determine effectiveness, and to what extent this impacts teacher effectiveness and student achievement. The determination of effectiveness is not straightforward, and the variables that impact student performance are plentiful and not yet completely understood. The expertise and commitment of the evaluators, typically administrators, will have a strong impact on evaluation results and must be considered. Now that Michigan districts have a few years experience of implementing new evaluation measures that require frequent classroom observations, to what extent are these changes improving teaching?

Learning and teaching are complex behaviors that are influenced by a plethora of variables. In order to determine the extent to which teacher effectiveness is impacted by

this new evaluation model, we must first define teacher effectiveness, and examine which components of effective teaching impact student achievement. One such tool, Charlotte Danielson's *Framework for Teaching* (2007), was developed to help educators improve their practice and identify effective teaching strategies. Danielson is a leading figure in teacher evaluation methods, particularly in classroom that employ constructivist instructional strategies, and many districts have adopted her framework for teaching as part of their teacher evaluation systems. This framework has gained widespread use throughout Michigan not only for its intended purposes, but also for evaluative and improvement purposes. In fact, 61.4% of Michigan school districts currently use the *Framework for Teaching* (hereafter FFT) in their evaluation process (Michigan Department of Education, 2016).

During this era of change relating to the evaluation of educators, the FFT has emerged as one of the leading evaluation tools used by administrators. The FFT has been adopted in at least nine states as the official framework for teacher evaluation (Danielson Group, 2013) and that number is growing. Charlotte Danielson, the author of the FFT, acknowledges the enormous complexity of teaching and her framework attempts to create "a definition of teaching that is simultaneously clear and succinct (it can be written on a single page) and respectful of the intricacies of the work" (Danielson, 2007, p. v). Her background with the Educational Testing Service (ETS) provided a foundation for developing criteria for educators.

In 1987, the ETS developed a program detailing the essential skills for Professional Assessments for Beginning Teachers, referred to as Praxis. The Praxis Series is grounded in research on pedagogical content knowledge and the Interstate New Teacher Assessment and Support Consortium (INTASC, 1992) standards. While Praxis I and II pertains to pre-professionals, Praxis III identifies criteria relating to assessing teaching skills and classroom performance. Danielson worked at the developmental phase of the program and participated in fieldwork and pilot testing. While her work with the ETS was geared toward licensing qualified educators, she soon began to see how useful the criteria could be for all educators. Her vision was to create a framework that detailed good teaching in order to provide teachers, novice and veteran, an opportunity to have meaningful conversations surrounding sound instructional practices (Danielson, 2007).

Today, the FFT is intended for all teachers and support staff, including counselors, schools nurses, social workers, library and media specialists and others. It serves as a mechanism for professional growth and provides a common language for conversations about teaching between educators. The process of reflecting on one's teaching using the FFT standards as a guide, collaborating with colleagues, and making modifications based upon these conversations, "is critical to both enriching the professional lives of educators and to ensuring that the components used in a given setting actually do apply there" (Danielson, 1996, p. 5).

The FFT is designed to assess the complex art of teaching across all grade levels, subject areas, and experience levels. The FFT identifies performance standards that are accompanied by a set of rubrics. Each rubric has a four-level rating scale: unsatisfactory, basic, proficient, and distinguished. The model is organized into four domains of professional practice: planning and preparation, the classroom environment, instruction and professional responsibilities. Each domain is further divided into 22 performance

4

components and 76 smaller elements. The domains and components are shown in Table 1 and the full framework is found in Appendix A. The comprehensive, generic framework and its accompanying rubrics for each domain and component provide a common language for practitioners.

Table	1
-------	---

Table 1	
Framework for Teaching (FFT)	
Domain	Components
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
	1e. Designing Coherent Instruction
	1f. Designing Student Assessment
2. The Classroom Environment	2a. Creating an Environment of Respect and Rapport
2. The Classicolin Environment	2b. Establishing a Culture of Learning
	2c. Managing Classroom Procedures
	2d. Managing Student Behavior
	2e. Organizing Physical Space
	20. Organizing r hysical opace
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
4. Professional Responsibilities	4a. Reflecting on Teaching
4. Professional Responsionnes	4b. Maintaining Accurate Records
	4c. Communicating with Families
	4d. Participating in a Professional Community
	4e. Growing and Developing Professionally
	4f. Showing Professionalism

Note: Adapted from the FFT (Danielson, 1996)

# **Contribution of the Research**

Nearly every state legislature is wrestling with the issue of teacher evaluation, and

many states have made significant changes recently to address the national movement to

redesign teacher evaluation systems. According to the Danielson Group (2013), the "Framework for Teaching has become the most widely used definition of teaching in the United States and has been adopted as the single model, or one of several approved models, in over 20 states" (The Framework section, para. 2). Michigan has recognized the FFT as one of several "approved" models for districts to use. Considering the widespread use of the FFT for evaluative purposes, research is sparse and undeveloped, thus warranting further investigation.

At its heart, the FFT focuses on improvement of instructional practices. This is accomplished through meaningful conversations built upon a common language (rubric). In other words, collaboration is a key component to improvement, and must be built into the overall system. According to the Danielson Group website (2013), districts should design a system that includes a "collaborative observation cycle" consisting of a preobservation conference, a classroom observation, shared written notes, written feedback from teacher, evidence assigned to components in the FFT, assessment of performance level, and a post-observation conference to reach consensus on the performance level, strengths and areas for growth. Research conducted in Chicago by Sartain, Stoelinga and Brown (2011) bears this out, recognizing that while the FFT "provides a tool for rating teaching, the conferences were intended to be the lever for translating the ratings into changes in instructional practice" (p. 21). The successful implementation of this type of collaborative cycle is dependent upon trained administrators who are committed to the process.

The national quest to reform the teacher evaluation system has gained momentum and changes are happening quickly; however it is not clear whether or not the new systems put into place will accurately measure teacher effectiveness. The FFT relies heavily on collaboration and professional conversations between evaluators and teachers, yet few districts have provided training or developed protocol to assist in these critical conversations. Creating a system within the school to support collaborative conversations is vital if the FFT is to be implemented with fidelity.

Bentley School District administrators have been using the FFT since the 2011-2012 school year to evaluate teachers, and have included a collaborative component as part of the system. Bentley administrators provide feedback to each teacher after an observation, linking comments to specific FFT components. This study will focus on the system that has been established in the Bentley School District, and the administrators' role in the process to determine whether the use of the FFT embedded in the evaluation process has produced instructional improvements over time. The researcher will then examine whether or not some groups show greater growth than others. Secondly, this study will investigate the types of interactions that occur surrounding teacher evaluations and the impact this has, if any, on performance.

The main research questions raised are:

- 1.) Does teacher evaluation using the FFT embedded in the process produce instructional improvement over time?
- 2.) What interactions around the FFT between evaluator and teacher contribute to teacher performance?

#### **CHAPTER 2 LITERATURE REVIEW**

## **Commonly Used Terms**

*Effective teaching* and *effective teachers* are terms that require defining, yet the definitions are not simple, nor straightforward. Using student growth or achievement data in determining teacher effectiveness is based on the fundamental belief that "good" schools, teachers or principals, bring about student growth in excess of that found with "bad" schools, teachers, or principals (Betebenner, 2009, p. 42). The *Race to the Top* definition of an effective teacher is one whose "students achieve acceptable rates (e.g., at least one grade level in an academic year) of student growth" (Goe & Holdheide, 2013, p. 12).

In contrast, the Measures of Effective Teaching (MET) Project (2013) defines effective teaching as, "sensitivity to students' academic and social needs, knowledge of subject-matter content and pedagogy, and the ability to put that knowledge into practice, all in the service of student success" (p. 3). Another document, the MET Project policy brief (2013), recommends that multiple measures of effective teaching be used, including classroom observations, student perception data, and student achievement data. There are many similar definitions for effective teaching found in current literature, most of which refer to using multiple measures for determining effectiveness in addition to student growth/achievement data. Oddly, considering how prevalent is the practice of comparing our educational system to those in other countries, there are few countries that "use student achievement scores as the primary criterion for teacher evaluation" (Williams & Engel, 2012, p. 54).

In some cases, definitions of effective teaching include student achievement or growth data, as indicated in previous examples. The FFT, a model developed by Charlotte Danielson, however, does not directly link these factors to teacher effectiveness ratings, but instead measures effectiveness against standards of practice. The standards are comprehensive, and span over four broad domains of professional practice: planning and preparation, the classroom environment, instruction, and professional responsibilities. This coherent set of standards embodies effective teaching (Danielson, 2007). The four domains, and the components contained therein, define teacher practices that are considered effective. This set of standards, referred to as the FFT, will be the working definition of "effective" for this study, and they are "grounded in the constructivist approach" (Danielson, 2007, p. 17).

#### **Historical Roots of Teacher Evaluation**

A review of the historical roots of teacher evaluation will show how such a drastic change occurred over a relatively short period of time. In 1983, public dissatisfaction with the public education system was growing, and when a federal commission published *A Nation at Risk* (National Commission of Excellence in Education, 1983), the spotlight was placed squarely on the flaws of our educational system (Fowler, 2009). In the years that followed, many studies were conducted on various aspects of the educational system in our country, including the evaluation system for teachers. Frequently touted buzzwords included student achievement, standardized testing, choice, and accountability. Questions revolved around how to best evaluate students, teachers and schools. Policies were introduced and implemented that could be viewed as a "revolt

against the aging school organization inherited from the nineteenth and early twentieth centuries and as a search for a new paradigm" (Fowler, p. 352). The implementation of *No Child Left Behind* (NCLB) in 2002 put the issue of accountability into the forefront of public opinion, and schools began to be rated based on student achievement in mathematics and reading (No Child Left Behind (NCLB) Act, 2001). This act not only brought the issue of student achievement based on standardized testing to the attention of the public, but moved the discussion closer to connecting teacher effectiveness to this data.

A great deal of controversy was created by NCLB, pitting lawmakers and educators against each other. The goal of NCLB, that one hundred percent of students will be proficient by the year 2014, is one that few educators believed as being realistic, although in the light of public opinion and media coverage, it was not an easy task to speak against NCLB. (Do *you* believe it is acceptable to leave some children behind?) Since its implementation in 2001, the direction and focus of our educational system has shifted in some significant ways. Schools, faced with the pressure of doing well on the standardized test (which is now "high stakes"), felt pressure to expend effort and energy into ensuring students performed well on these tests, as opposed to using instructional practices and assessment techniques that are rooted in research-based, best practices. Berliner (2009) criticizes NCLB because it rigidly prescribes what teachers do and reduces autonomy of teachers. This in turn has a negative affect on the professionalism of teaching. There are many other negative side effects of this accountability system, such as "teaching to the test," skewing the curriculum to match the predicted items on the test, and teaching the lower-level thinking skills that standardized high-stakes tests assess.

Additionally, the legislation is discouraging to educational professionals, and certain subject areas (those tested) are given priority over others (Cho & Eberhand, 2013).

After the implementation of NCLB, it became common practice to evaluate *schools* based on student data. Discussion continued regarding reform measures for teacher evaluation, however. The NCLB act requires teachers to be "highly qualified," which means that teachers have attended an approved teacher preparation program and passed state tests in their subject area. Holley (2008) agrees that NCLB was correct in deeming that teacher quality is an essential component of accountability, but states that the law does not go far enough and "the policy should focus on 'Highly Effective Teachers,' not 'Highly Qualified Teachers'" (p. 63). He argues that the outcomes of education, student achievement gains, are the most effective way to measure teacher quality. The push to implement new methods of evaluating teachers using student achievement data quickly gained momentum and support in the public arena.

The increased use of standardized testing resulted in a proliferation of data on student achievement, and it became simple and common practice to compare and rank schools based on the results. Teacher evaluations, on the other hand, continued as usual, as outlined in the teacher contract. The union influence, particularly in Michigan, placed limitations on the evaluator. It was not uncommon for a principal to visit classrooms once per year, and sometimes even less frequently. The teacher often put on a "dog and pony show" and then went back to business as usual. Evaluators visited classrooms, and wrote evaluations about the lesson. Little useful feedback was given to teachers. The entire evaluation process, from a teacher's perspective, was passive. If the object of these evaluations was improvement, it was not working. "It is scarcely surprising that teachers don't learn much as a consequence of the traditional supervision process; they aren't *doing* anything" (Danielson, 2007, p. 4). Attention to the evaluation process increased when it became common that a school's performance data and the quality of teachers, as determined by teacher evaluation tools, did not align. The process of removing ineffective teachers was rigorous, time-intensive, and expensive; therefore they were rarely identified or removed.

Teacher evaluations continued to be almost exclusively positive, yet standardized test scores told a different story. The Widget Effect (Weisberg, Sexton, Mulhorn, and Keeling, 2009) studied teacher evaluation practices in four states and found that 94 -98% of teachers receive positive ratings and less than one percent are rated as ineffective. The Widget Effect exposed a broken evaluation system in terms of accountability and connection to performance rewards, such as salary. The report essentially pointed out that across the nation, teachers are nearly always rated as being satisfactory in their job performance. This created a fresh wave of reform measures and legislation, much of which has now been passed by state government and often revamps teacher evaluation systems in significant ways. The New Teacher Project (2013) summarized flaws in a traditional evaluation system that came to light in the Widget Effect (2009). They include infrequent evaluations that are unfocused and based on superficial judgments, as opposed to student achievement data, undifferentiated (pass/fail), unhelpful and inconsequential. The Widget Effect concludes that excellence goes unrecognized, teachers are given inadequate professional development, novices are not given the support they need and poor performance goes unaddressed.

The more recent *Race to the Top* legislation from the Obama administration feeds the country's quest for better education and accountability measures (Civic Impulse, 2015). The policy changes in this legislation link student achievement data, as measured by a high-stakes standardized test, to districts, schools and teachers. Many states have adopted the *Race to the Top* Legislation because they will automatically get relief from the sanctions resulting from non-compliance to the NCLB legislation (districts that do not have one hundred percent of students in grades three through eight proficient in mathematics and reading will be non-compliant, or "failing" schools). The *Race to the Top* legislation entices states to link teacher evaluations, performance reviews and even salary to the results of student achievement tests.

Previous attempts to reform the teacher evaluation process have not resulted in their intended purpose of increasing accountability and/or improving teaching (Darling-Hammond et al., 1983; Peterson, 1995; Weisberg et al., 2009). Today's efforts differ from previous attempts in that they are commonly tied to legislative initiatives. In Michigan, the union's decreasing influence creates an environment in which this type of change is not only possible, but it is expected and written into law.

#### **Today's Landscape**

In 2011, "the rating 'ineffective' was given to slightly less than 1% of teachers by their local evaluation systems" (Kessler & Howe, 2012, p. 9), and the rest were categorized as "effective." The following year, after implementation of the new evaluation mandates, there was much more delineation between "effective" and "highly effective." For many teachers this has been a paradigm shift, as they have been given the highest marks possible on their evaluations for many years. To move to a new model of

evaluation that includes observations and feedback from administrators "can actually seem patronizing and condescending; they are experienced professionals" (Danielson, 2007, p. 11).

There is no question that the teacher evaluation system, as traditionally outlined in union contracts, was in need of fixing. However, we need to be cautious as we begin down this path of developing new methods of teacher evaluations. Oddly enough, the legislation was passed and policy was determined with very little input from educators. Perhaps this is because there are those who believe that many of our teachers are the problem and drastic changes are necessary in order to get rid of ineffective teachers. The tide for reform is strong, and policy has been implemented and carried out so swiftly that districts, administrators and teachers are reeling from the effects, and are struggling to keep up with new requirements. All districts in Michigan are implementing new evaluation measures, and the implementation timeline is such that there is not adequate time to research and determine the best measures of teacher effectiveness. Districts across the state are all going in different directions, and scrambling to conform to the new laws. A primary concern is that policy is implemented and will impact teachers' lives and livelihood long before the research is complete and before appropriate tools have been developed. It is this fact that makes the evaluation system high-stakes, whether it is connected to student achievement and/or growth data or not.

In spite of the fact that educators have had little input in the formulation of these changes, they have voiced their concern. A joint proposal from a number of education associations across the state was published in response to the legislation that pertains to performance evaluations of teachers (American Federation of Teachers, et al., 2013).

Their warning is clear: It is imperative that great care be taken when developing evaluation measures that take into account multiple variables, many of which are outside the control of teachers, administrators, and their school, that have heavy implications for the livelihood of those being evaluated. In fact, there is some recent research regarding using student achievement data to determine teacher effectiveness, while controlling for these outside factors, but the area is so new that the current research is very contradictory. Although the idea of addressing teacher effectiveness and holding professionals responsible is a noble one, the process in which the evaluation tool is developed should be thoughtful, research based, and broad.

## **Other Measures of Effective Teaching**

Many factors, not only those that are based on student achievement, contribute to effective teaching. They include instructional strategies, content level pedagogy, experience, classroom and teacher observations, classroom practices and instructional techniques, collaboration, discourse, and management and organizational skills; these can be measured using careful classroom and teacher observations (Cobb, et al., 1999; Danielson, 2007; Marshall, 2009; Marzano & Toth, 2013). These areas are supported by research and best practices have been developed over many years, and therefore should constitute part of a comprehensive teacher evaluation system.

Teaching is an art, and as such requires a number of variables to be considered and working in harmony to be most effective. The National Council of Teachers of Mathematics (2011) recognizes that the use of student test scores for teacher evaluation purposes is too narrow in scope, and an evaluation of this sort will neglect to consider some very important aspects of the teacher's job. The NCTM's position that "evidence of student learning can and should be considered in the evaluation of teachers, it should be only one factor among many" (NCTM, 2011, p. 42) is supported by current research and studies in the field of mathematics education (Cobb, 1999; Hiebert & Grouws, 2007).

Likewise, students should be assessed using multiple measures and student achievement and growth ought to be based on assessments and strategies that are supported by research-based best practices. Darling-Hammond (2010) identifies several key elements of effective assessment systems, including a rich and aligned curriculum, and a well-rounded and robust system of student assessments that include evidence of learning, such as performance assessments, constructed responses and formative assessments. Many high-achieving nations use open-ended performance tasks to assess the progress of their students.

It is clear to anyone who has stood in front of a class of students preparing to embark upon the teaching of any subject, that there is much more involved in teaching than simply knowing the content. Marzano & Waters (2009) describe pedagogical knowledge as comprising three parts: instructional strategies, management techniques and curriculum design. Not only does the effective teacher have a firm understanding of the content she is teaching, but she will also understand how to break the concepts down into understandable pieces so that children can begin to construct their own understanding of mathematical concepts.

Marzano & Waters (2009) have identified instructional strategies that are directly linked to student comprehension. The use of concept maps, homework, note-taking, and cooperative learning are some of the strategies Marzano & Waters identify as having a positive impact on student achievement that are also supported by research in mathematics education (Cobb & Bowers, 1999; Hiebert & Grouws; 2007, Hill et al., 2007). The role of discourse is equally important, and must be facilitated by an experienced and knowledgeable teacher. Cunningham (2005) found this to be true as well, and underscores the positive impact that student discussion and collaboration can have on their learning. The components within the FFT link directly to these aspects of instructional practice.

A comprehensive teacher evaluation will take into account both the actions of the teacher during the class period, as well as his or her experience, professionalism, planning and reflection (those actions that occur outside of the classroom). The design of the teacher evaluation is vital, and reflective of the designers' belief about good teaching. If "good teaching is a professional skill developed over time with experience and through relationships with other professionals, then teacher evaluation might serve more of a signaling and formative mechanism" (Williams & Engel, 2012, p. 56). Including elements of peer review and feedback shifts the focus to "improving practice" rather than simply evaluating performance. In the long term, these formative elements are likely to make the evaluation system more meaningful and will ultimately be of greater benefit to more students. In Finland, evaluation is structured as a coaching model, and is a formative process. Japan uses the practice of lesson study, which allows teachers to observe and critique other teachers in a group setting (Williams & Engel, 2012). Although the lesson study is not used for teacher evaluation in Japan, it is used for instructional improvement. A similar formative assessment framework for teachers in this country would be beneficial.

## **Framework for Teaching**

The FFT is based on a constructivist view of student learning, in which learners are viewed as active participants in their own learning (Murray, 2014). A constructivist classroom is student-centered, and the teacher creates opportunities for learning to occur. The main activity is usually centered on solving problems using inquiry-based methods. Danielson (2007) states that the FFT is "grounded in the constructivist approach [and] it assumes that the primary goal of education is for students to understand important concepts and develop important cognitive skills" (p. 17). Formative in nature, the FFT is based on this same constructivist theory and its purpose is to create a conversation among educators that results in an improvement in instructional practice by engaging educators in the experience.

The FFT has emerged as one of the leading models for teacher evaluation in this new era of transparency and accountability. Many states have adopted the FFT as the evaluation model, and others have named it as one that may be used to evaluate teachers. Michigan falls into the latter category, and recommends the FFT as one of several that may be used by districts in their evaluation efforts. While empirical evidence directly relating to the effectiveness of the framework is scarce, some studies have begun to emerge. Milanowski (2011) summarizes research pertaining to several different implementations of the FFT and finds ratings to be reliable only in some cases based on variations of implementation. He stresses, "The procedural variations among different implementation of the Framework likely have a lot to do with differences in the reliability or validity of ratings" (p. 5).

A large-scale study of teacher evaluation systems, the Measures of Effective Teaching (MET) project (2013), was a beginning in conducting much needed research. The purpose of the study, funded by the Bill and Melinda Gates Foundation, was to determine how to identify and promote effective teaching. The MET project involved 3,000 teacher volunteers from six public school districts. The scope of the project was broad, and included a focus on mathematics, language arts, standardized tests, student performance, longevity of teachers, socio-economic factors of students, feedback methods and evaluation tools. The FFT was one of several evaluation tools used by districts involved in the MET Study.

Key findings from the three-year study were: (a) effective teaching can be measured; (b) multiple measures, such as observations, student surveys and measures of student achievement can be used to determine teacher effectiveness; and (c) adding a second observer of a particular teacher increases reliability significantly more than having the same observer score an additional lesson for that teacher (Cantrell & Kane, 2013).

Sartain et al. (2011) conducted a large-scale pilot program in the Chicago Public Schools on teacher evaluation. The pilot's focus was to improve instruction through the use of the FFT. The three goals of the pilot program were: "to improve teaching and learning in the school district; to develop a stronger professional learning climate among teachers and principals; [and] to foster a constructive -rather than punitive – climate around teacher evaluation" (Sartain et al., 2011, p. 5). This is one of the first studies that provided research-based evidence that a new evaluation model could have a positive impact on instructional practices. Overall, Sartain et al. (2011) concluded that:

The classroom observation ratings were valid measures of teaching practice; that is, students showed the greatest growth in test scores in classrooms where teachers received the highest ratings on the Danielson Framework, and students showed the least growth in test scores in classrooms where teachers received the lowest ratings. The classroom observation ratings were reliable measures of teaching practice; that is, principals and trained observers who watched the same lesson consistently gave the teacher the same ratings; however, 11 percent of principals consistently gave lower ratings than the observers and 17 percent of principals consistently gave higher ratings than the observers. Principals and teachers said that the conferences were more reflective and objective than in the past and were focused on instructional practice and improvement. However, many principals lack the instructional coaching skills required to have deep discussions about teaching practice. Over half of the principals were highly engaged in the new evaluation system. Principals who were not engaged in the new evaluation system tended to say that it was too labor intensive given the numerous district initiatives being simultaneously implemented in their schools. (Sartain et al., 2011, p. 2)

Schools in this study realized the shift toward evaluations that were more reflective and formative in nature than traditional evaluations. "The study found that the new teacher evaluation system had potential to impact school-wide change focused around teacher professional development and student learning" (Murray, 2014, p. 44).

White, Cowhy, Stevens & Sporte (2012) found similar results in a study aimed at learning about the implementation of the FFT in Illinois, and to understand how teachers and administrators perceived the system. A number of challenges were encountered by the five districts implementing the new system, including utilizing the evaluation process to improve instruction, creating buy-in from participants, and reducing the time burden on administrators.

Current research on the FFT is inconclusive as to whether or not the FFT, or any teacher evaluation model, can accurately assess effective teaching. Policymakers and educators alike must keep abreast of research pertaining to teacher evaluation as it becomes available; "one emerging theme is very clear from the aforementioned policy recommendations and research studies and that is the importance of feedback during the observation process" (Murray, 2014, p. 50).

## **Classroom Observations and Feedback**

One of the elements of Michigan's revised evaluation law (Legislative Council, 2011) is that administrators will perform multiple, short observations. This is in contrast to previous evaluations (most often negotiated by the union and administration) that not only limited observations for evaluative reasons, but also required that teachers were informed of when it would happen well in advance. This has spurred a flurry of activity, research, and commentary about classroom observations. Frequent, unannounced observations, according to Sartain et al., can provide or create motivation for improvement among teachers (2011). Reeves (2010) found that the teacher influence is the largest factor in student success, especially among lower achieving students.

Marshall (2009) also supports the use of frequent, focused classroom observations that include immediate and specific feedback to teachers. Effective communication has a positive impact on school climate and "effective principals recognize the unique styles and needs of teachers and help them achieve their own performance goals" (p. 336). He suggests multiple, informal mini-observations with one-on-one feedback conversations (face to face). This method, he contends, will improve teaching in every classroom. Although this is a paradigm shift for educators, many are open to the feedback and appreciate the opportunity to reflect on and improve their practice. Marshall contends that the administrator should have a particular area of focus, communicated to the teacher in advance, such as "questioning strategies and techniques."

After observing the teacher, the administrator should provide written, specific feedback and recommendations for improvement to the teacher. Just as the teacher uses formative assessment techniques to inform herself of her students' progress, the administrator can use observation data to gain insight as to the teachers' strengths and weaknesses and to inform future support and professional development plans. Goe & Holdheide (2013) contend that "conversations should center on instructional strategies to address learning needs," and should be constructive rather than critical (p. 29).

Danielson (1996) concurs, noting that the process involved in the coaching conversations "is critical to both enriching the professional lives of educators and to ensuring that the components used in a given setting actually do apply there" (p. 5). The FFT is designed to provide meaningful feedback on how teachers can improve their craft, and reflection and self-assessment are critical components of the model (Danielson, 2011).

There are some cautions about using observations, however. Danielson (2007) discusses the problem of administrator discrepancy and bias. Administrators must be fully educated and trained not only in how to perform an effective classroom observation, but to have a clear idea about each category in which the teacher will be evaluated. According to Danielson (2007):

Bias occurs whenever there is variability in an observer's application of the rubric based on a particular characteristic of the classroom (e.g., paint color), or of the individuals in the classroom. Biases can be unique to observers or can be shared across observers. Personal preferences are a shadowy mix of biases and prejudices. We usually exhibit personal preferences for familiar traits and behaviors. Personal preferences are often unique to an observer... We all have hidden biases and personal preferences that govern the way we respond to people, things, and events. Our biases and personal preferences, whether positive or negative, can impact the fairness and validity of ... scoring when they are not a part of, or contradict, the instrument's scoring guidelines (p. 14).

The purpose of the training is not to eliminate bias or personal preference, which is probably impossible, but simply to recognize it and minimize its effect. Many districts are developing rubrics for administrators to use that are aimed at reducing bias and variability among administrators. "Accuracy of observations requires rigorous training on how to differentiate performance across all competencies within an observation instrument" (MET Project, 2013, p. 6). Another practical concern that is raised by Goe & Holdheide (2013) is how time intensive the process is, particularly if it includes individual conversations with each teacher after an observation.

There are a number of qualities that effective teachers possess that are not observable in the classroom, but are important enough to be included in an evaluation model. These include items in the professional domain, such as experience, education, organizational skills, planning, preparation, collaboration with colleagues and professional development. Many opponents of public education, including the Mackinaw Center in Michigan (Holley, 2008), dismiss this domain as unimportant. They even point to some studies that seem to show that experience and education do not impact student achievement. Many subsequent studies and reports, however, have largely discredited those claims (Marshall, 2009; Marzano & Waters, 2013; Ravitch, 2010; Reeves, 2010). Another important aspect, and largely underused, is teacher collaboration. Collaboration has typically been ignored in the field of education in the U.S., and the system is not built well to accommodate it. It will take a creative administrator to find ways to allow teachers to collaborate effectively. As of yet, there is no "definitive link between the quality of the feedback received during the observation process and changes in teachers' instructional practices" (Murray, p. 61).

The transition from the traditional "annual" model to a "frequent, unannounced" observational model raises a number of questions, that time and research will be able to address. One question is whether or not this model will result in better differentiation, or give administrators a broader range, of teacher quality. Early studies are mixed. Lipscomb, Chiang & Gill (2012) found the variation between satisfactory and unsatisfactory teachers nearly unchanged during a pilot using the FFT. It is yet unclear as to whether or not classroom observations will translate into improvement in instructional practice, or which aspects garner greater results. Change is not inherent in the process of classroom observations, rather it is impacted by multiple variables, such as trust, willingness, consistency and mindset. However, it is likely that this new pressure will impact the daily practices of teachers, and we will see curricular and instructional improvements (Cho & Eberhard, 2013). Policymakers must weigh the costs and benefits of their legislation, and create the opportunity to gather data and research. The changes have been swift, and are costly. Districts and principals are investing valuable time and money to develop, implement and document this new evaluation system for educators efforts that may prove futile if there is no improvement in teacher effectiveness and student learning.

#### **Conclusion to Literature Review**

Change takes time. Significant systemic changes must occur in order for a new evaluation model to be meaningful and useful. Administrators must not ignore the importance of getting buy-in from teachers. Teachers are often quick to dismiss new initiatives as "passing fads" which are soon replaced by yet another new idea. Current evaluation systems have not changed teachers' practice over time (Donaldson, 2012) and many teachers remain disconnected from new evaluation systems, not believing there is a link between classroom observations, professional conversations, and their performance. Organizational culture must change in order for people's behavior to change.

Professional growth and change can occur when teachers and administrators take a collective responsibility for improving student learning (Marshall, 2013). Indeed, a building administrator's behavior plays a substantial role in the change that must occur for improvement to take place. This is done by building a culture of trust, reflection and collaboration, and by providing feedback to teachers to promote growth and development of the staff (Darling-Hamond et al., 1983; Fullan, 1991; Ovando & Ramirez, 2007).

While teacher evaluations, in some form, have existed for decades, current systems have a significant design difference. They are fulfilling dual purposes: improvement and accountability (Danielson, 2010). States are moving away from a seniority-based system for teacher retention and replacing it with a system that is based on teacher performance as indicated by evaluations. Some believe that the evaluation process is incapable of fulfilling both purposes. Popham (2013) stated that the "reason the dual-mission teacher evaluation won't work resides in human nature. Teachers want to improve their skills ... but teachers also want to keep their jobs" (p. 21). Darling-Hammond et al., (1983) support the notion that a new system can be successful if specific guidelines are put into place, and all participants have a shared vision of the purpose and process. Evaluations can be the catalyst that drives instructional improvements when "teachers perceive that the evaluation procedure enables and motivates them to improve their performance; and principals perceive that the procedure enables them to provide instructional leadership" (Darling-Hammond et al., 1983, p. 320). Evaluations conducted

for the purpose of improvement are likely to thrive if the environment has supportive leaders, and a mutual feedback system is established (Santiago & Benavides, 2009).

There is no doubt that teachers will now be evaluated using new evaluation systems, whether research supports them or not. It is essential that high-quality research be conducted to determine what measures of teacher effectiveness can and should be used in teacher evaluations. Done correctly, this could be a time when we make some positive and significant improvements to our field, and the results could have great results for students and for our nation. However, done too quickly and without proper caution, input and care, the results could produce dismal results and may ultimately have devastating effects on our public education system. Already there has been a profound shift of time, energy and money toward the development and implementation of a new evaluation system, repositioning resources that were previously used elsewhere. This transfer of resources, implemented hastily to conform to shifting legislative requirements, may bring about unintended consequences to our entire educational system.

## **Chapter 3 Methodology**

In 2011, the State of Michigan changed the law pertaining to the performance evaluation system of educators (Legislative Council, 2011). The new law prohibits teacher evaluation as a subject of bargaining, and requires that teachers are given one of four designations: Ineffective, minimally effective, effective or highly effective. Although the State of Michigan has not provided or mandated a single evaluation tool, the majority of districts throughout the state are using Charlotte Danielson's Framework for Teaching (FFT).

Teaching is very complex work and, as such, it is important to develop a comprehensive picture and a common language with which to talk about it. The FFT serves this purpose, and is divided into four domains of teaching responsibility:

- Domain 1 Planning and Preparation
- Domain 2 Classroom Environment
- Domain 3 Instruction
- Domain 4 Professional Responsibilities

Domains 2 and 3, Classroom Environment and Instruction, describe those aspects of teaching that are directly observable in the classroom. Domains 1 and 4, Planning and Preparation and Professional Responsibilities, represent the behind-the-scenes work of teaching that are essential to good teaching and have a significant impact on the learning that happens in the classroom. While all four domains will be considered for final evaluations, classroom observations focus primarily on domains 2 and 3.

The FFT uses a four-point scale. The ratings designated by State of Michigan are in parenthesis next to the category they correspond with, as follows:

- 4: Distinguished (Highly effective)
- 3: Proficient (Effective)
- 2: Basic (Minimally effective)
- 1: Unsatisfactory (Ineffective)

In many districts, the evaluator, who observes teachers during classroom observations, provides written feedback to the teacher, most often through e-mail. Ideally there is a post-observation meeting that is face-to-face. Evaluators view the conversations and feedback as "coaching" conversations, although to teachers these conversations lead to high-stakes decisions and outcomes. A teacher's job security is now based on their evaluation, a drastic change from the seniority system that has been in place for so long.

# Setting

This research uses a single case study, the Bentley School District (pseudonym), to examine the implementation, impact and results the district has had using the FFT as an evaluation device. The Bentley School District has developed an evaluation process that uses the FFT in conjunction with frequent classroom observations and a feedback cycle, and it has been in use since the 2011-2012 school year. The data collected from multiple observations, conversations and evaluations, are used to evaluate teacher effectiveness, using the structure described in the FFT. Teachers and administrators are used as subjects. As individuals who have utilized the tool for a period of time, they have a strong familiarity with and understanding of how the FFT works, which strengthened the study.

Bentley School District consists of one high school, one middle school, and four elementary schools, with 188 teachers and 10 administrators. This study uses evaluation

data from all teachers in the district in order to identify differences, if any, between groups of teachers on various factors such as gender, experience, grade level and content taught. The student population is 69% African American, 25% Caucasian, with 2% Latino/Hispanic, and the remainder 4% divided among other racial and ethnic groups. More than 50% of students qualify for federally funded breakfast and lunch.

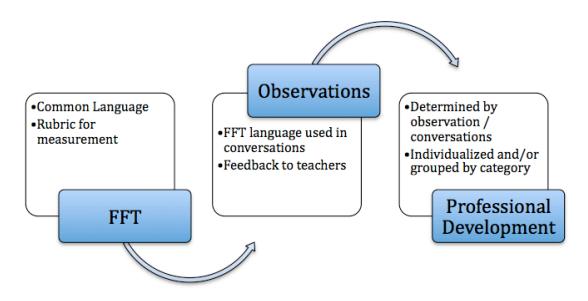
Two specific areas of concern are addressed in this study. First, research was conducted to determine whether Danielson's FFT, embedded into the evaluation process, can impact teacher performance by producing instructional improvement over time. Many districts have revamped their entire evaluation system and are investing scarce resources to train personnel and replace former evaluation models. The FFT demands a continual investment of time by administrators, who have a multitude of additional responsibilities. Most evaluation systems now include multiple observations by an administrator or evaluator in order to comply with the law. In the Bentley School District, such observations are formative in nature, involving teachers in the process through feedback, reflection and discussion. Observational comments are linked to components in the FFT. Feedback is an important element of any assessment process, and therefore the second part of this study attempted to identify the specific interactions between evaluators and teachers that contribute to teacher performance. The research questions and sub-questions are:

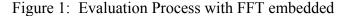
- 1.) Does teacher evaluation using the FFT produce instructional improvement over time?
  - a. Does the change indicate that the teachers are getting better at their practice?
  - b. Does the FFT adequately inform educators about their practice, and if so how?
  - c. Do some groups of teachers, such as early elementary teachers or veteran

teachers, show greater growth than others?

- d. Are there limitations to the tool, such as differences between the four levels of effectiveness?
- 2.) What interactions around the FFT between evaluator and teacher contribute to teacher performance?
  - a. What are some of the interactions around FFT that contribute to teacher performance? Are some types of interactions more helpful than others?
  - b. Do teachers and administrators have a clear understanding of the FFT? Do they find value in the FFT?
  - c. Do teacher and administrator groups have similar beliefs/views regarding the evaluation process?
  - d. Do sub-groups of teachers have similar beliefs/views regarding the evaluation process?

The evaluation process includes many components, including classroom observations, feedback from observations during coaching conversations, and professional development. Observations, feedback during conversations, and professional development are all related to the FFT domains, components and elements. The FFT provides a common language and a unified lens for the entire process. Figure 1 shows the elements of the evaluation process and how the FFT is embedded into the system.





## **Administrator Training**

In the Bentley School District, all teachers and administrators participated in twelve hours of training on the FFT beginning in the fall of 2011. Additionally, 7 administrators (64%) completed an extensive training program for evaluating teachers, and are now certified evaluators using the FFT. The remaining 4 administrators have had some, but not all, of the FFT training. In light of the complexity of teaching, it is often difficult for multiple evaluators to reach consensus on a teacher's performance. The training program addressed this dilemma, by offering all evaluators in the district the groundwork necessary to address the issue of inter-rater reliability, and ensure that the expectations were similar throughout the district. The rigorous training and focus by the district provided a solid foundation for this study.

Classroom and teacher observations using the FFT have been ongoing in the Bentley School District since the 2011-2012 school year. Results and information pertaining to the FFT standards (Appendix A) for each classroom observation have been collected by administrators and a summary is recorded on a common feedback form (Appendix B). Evaluators complete multiple classroom observations for each teacher, using the FFT. Classroom observations are unannounced, and typically last between 16 - 20 minutes, according to the results of an administrator survey. Administrators strive to give written feedback to teachers within 24 hours, and ideally a conversation about the lesson and observation is held between the teacher and evaluator. This meeting is meant to be formative and reflective in nature.

The participants included all 188 teachers in Bentley School District and the ten evaluators. This number of teachers reflects the number of teachers, both full and part time, employed by the Bentley School District in the fall of 2015. Previous years' numbers fluctuate slightly due to retirements, leaves of absence, hiring and other staffing needs. Evaluation scores from the 2011-2012 through 2014-2015 school years were used for the longitudinal study. The level of experience of the teachers ranged from novice (less than five years) to veteran (15 or more years). The researcher compiled the following information for each case (teacher): grade level, subject area (if relevant), years of teaching, gender, school, and overall evaluation rating for each of the past four years.

Preliminary procedures for the study included obtaining consent from the district to use the data (Appendix C), developing an agreement between the district and researcher that assures confidentiality (Appendix D), development of survey instruments, and the creation of an information sheet to be distributed to those who took the survey. This information sheet is included in the surveys for both teachers (Appendix E) and administrators (Appendix F). The researcher developed the surveys and survey items were based upon the research questions and sub-questions.

Data were collected for the past four school years. Teacher ratings and other demographic information were de-identified and coded for use in the study by the human resource department in the Bentley School District. This allowed the research to connect different data points with the same teacher. The study was limited to the use of existing and previously collected de-identified private information. This information was not specifically collected for research purposes. The researcher has obtained exempt status from the Wayne State University IRB. The study includes four school years, which are defined as: Year 1 (2011-12), Year 2 (2012-13), Year 3 (2013-14), Year 4 (2014-15).

Prior to administering the surveys, the researcher met with each group of teachers and administrators to explain the purpose of the survey, to invite them to participate by completing the survey, and to answer questions. The survey was then distributed via email and weekly reminders were sent to participants for a period of 5 weeks to the teaching group and to the administrator group. These surveys were administered using Qualtrics Survey software and questions were designed to elicit information pertaining to the evaluation process, the use and practicality of the FFT for evaluative purposes, and its perceived value and impact on instruction and student achievement. Most questions are multiple choice, using a Likert scale for responses, and it also includes some open-ended questions.

The interactions between evaluators and teachers surrounding the FFT were examined to identify practices and conditions that improve teacher performance. Examples of some typical interactions include written feedback, one-on-one conversations, suggestions for teachers to follow up with, and promptness of feedback. This second research question seeks to identify those practices and conditions conducive to improvement, and inform some of the underlying questions. What are some of the interactions around FFT that contribute to teacher performance? Are some types of interactions more helpful than others? Do teachers and administrators have a clear understanding of the FFT? Do they find value in the FFT? Do teacher and administrator groups have similar beliefs/views regarding the evaluation process?

#### **Design – Research Question 1**

Up to four years' worth of longitudinal evaluation data and an effectiveness rating, as determined by his or her administrator, were collected for each teacher. In order to answer the first research question, "Does teacher evaluation using the FFT produce instructional improvement over time?" the study examined the change in effectiveness ratings over time using a one-way repeated-measures ANOVA test for all cases in which four years' worth of data was available. This informs the extent to which the evaluation process, including the implementation of classroom observations and feedback using the FFT as a model that is embedded into the evaluation process, results in instructional improvement. The independent variable in this portion of the study is the year of the evaluation and the dependent variable is the evaluation rating. The null hypothesis is that there is no change in effectiveness ratings over time, and the alternative hypothesis is that there is a change in teacher effectiveness over time.

 $H_0$  = no change in teacher effectiveness ratings

 $H_A$  = teacher effectiveness ratings change over time

The demographic fields extracted from the evaluation data include grade level, subject area (if applicable), years of teaching, gender, school, and overall evaluation rating for each of the past four years. Data were analyzed using the Statistical Package for the Social Sciences (SPSS). In addition to the one-way repeated-measures ANOVA described above, Friedman's two-way analysis of variance and pairwise comparisons were examined to determine the extent to which the results were statistically significant. Chi-squared independence tests were then performed to determine associations between demographic fields and teachers' ratings. These tests, each of which has its own null and alternative hypothesis, help identify whether there exist differences between elementary and secondary evaluations, schools, subject levels, or between novice and veteran teachers. Finally, cell-by-cell comparisons of adjusted standardized residuals were completed to determine specific information as it relates to the data.

In cases where there were outliers, the written evaluation summary was used to add contextual evidence pertaining to the specific case in question. To accomplish this, a textual analysis was performed once the researcher obtained the narrative contained in the de-identified, end-of-the-year evaluation from the district's human resource department. The textual analysis searches for common phrases and descriptors that indicate best practices. Once identified, the researcher examined consistencies among this sub-group to articulate those actions that are more apt to result in improvement.

## **Design – Research Question 2**

Through the use of surveys, the study examined the specific type of feedback and its frequency, and other interactions and conditions that may contribute to teacher improvement. Both groups, teachers and evaluators, were surveyed, using a different

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form for each group, in order to inform the second research question, "What interactions around the FFT between evaluator and teacher contribute to teacher performance?" Many of the questions in the teacher survey are identical to those in the administrator survey, allowing for comparison between the two groups. The surveys were used to gain an understanding of the specific interactions that foster positive results in teacher performance through both open-ended and closed-ended questions.

Surveys were administered to all teachers and administrators using Qualtrics Survey program. Survey data were collected and summarized to provide a detailed analysis about each individual's experience with and perception of the FFT. Survey data were analyzed using a cross-variable analysis to determine whether there are associations between variables. Mann Whitney U tests were conducted to determine whether the data show statistically significant differences between teachers and administrators. The nonparametric Kruskal-Wallis H test was also run to examine differences among variables (buildings, experience level, content taught, etc).

The qualitative elements of the study allowed the open-ended questions to be explored in greater depth and detail than quantitative data from a survey could provide. This provided the researcher with a better understanding how a teacher's practice is impacted by frequent, informal classroom observations and feedback using the FFT. This data may also inform and enhance the understanding of the first research question. In addition, recurring themes have been identified on the survey responses using a tracker system to organize the results.

A logical analysis was used to organize responses from the open-ended questions of both surveys and a matrix was developed to display results. Miles and Huberman's (1994) three-step process for logical analysis was followed. First, the responses were reduced and categorized by theme, then the data was arranged to visually depict the embedded data, and finally conclusions were drawn. The underlying questions answered in the surveys, which are addressed in chapter 5, included: What are some of the interactions around the FFT that contribute to teacher performance? Are some types of interactions more helpful than others? Do teachers and administrators have a clear understanding of, and do they find value in, the FFT? Do teacher and administrator groups have similar beliefs/views regarding the evaluation process?

## Confidentiality

Participant confidentiality was maintained through a number of safeguards that were put into place. The researcher used de-identified teacher data from Bentley School District. This confidentiality extended to the administrators as well. No teacher or administrator names were included on the data, and there are no means by which the researcher can find which teacher the data belonged to. Participant information did not include specific information that could potentially lead to identification, such as date of birth, or employee identification number. Surveys were confidential, and participants were assured of their privacy. The Qualtrics platform is designed to ensure anonymity, and the researcher set up the survey with maximum confidentiality assurances. A coding system was developed to describe the results, and only the researcher was aware of the system.

#### Validity

Three data sources were used in an effort to construct validity through

triangulation. The data gathered regarding each teacher's evaluation for the past four years and other details pertaining to their job, such as longevity, is the first data point. The Bentley School District has consistently used the same system for the duration of the study, and both teachers and administrators received training. Training for administrators has been ongoing since the implementation of the system, addressing FFT rubric details, observation techniques, coaching conversations, issues pertaining to bias and inter-rater reliability. In an effort to address the issue of evaluator bias and to increase inter-rater reliability, all district evaluators were trained and most are certified in using the FFT to evaluate teachers. Others have not yet completed the extensive training process. According to Danielson (1996), this training and participating in ongoing meetings to discuss the standards in the framework should occur. It is vital that evaluators watch videos, or live lessons, rate independently and then discuss their observations and conclusions. This practice will not only improve their skills, but will minimize the discrepancy among evaluators. Surveys of teachers and evaluators provide two additional data points.

Both surveys were designed to be tightly aligned to the research questions and sub-questions. Questions were drafted, reviewed and revised with practitioners (teachers and administrators) and committee members (Fowler, 2009). Questions were designed to elicit information directly related to the research questions and sub-questions. In many cases, questions were identical in both teacher and administrator surveys, allowing for comparison and analysis between the two groups. The researcher created both surveys with input from her committee. This panel of experts reviewed each question with the researcher and changes were made to improve the question quality. For example, the

original phrase "written feedback" was changed to "qualitative feedback" since feedback could be both written and oral. Also, some general questions were modified to be more specific and some questions were reworded so as to have a few negative statements, such as "The FFT process is insignificant to me as a professional" (Fowler, 2009).

One issue that may impact results is that teachers are slowly realizing the extent to which the evaluation stakes have changed. Prior to the legislative changes in 2011, teachers were evaluated as detailed in their bargaining agreement, and many protections were included. Now teachers are beginning to understand the impact of the change and see how evaluation results are used to inform lay-offs and termination. The union is no longer able to bargain issues relating to evaluation.

In practice, this could have more of an impact on some teachers than others. For example, evaluations have higher stakes for some because of the needs of the district (such as having too many elementary teachers and needing to lay off in that area). It is likely, for example, that elementary teachers would be laid off before secondary mathematics and science teachers based on these needs. Layoffs are also based on the teachers' highly qualified (HQ) status. Here, it is likely that a veteran teacher with 20 year's experience be laid off when a district is downsizing due to declining enrollment (this is not uncommon). If this district had to reduce the size of their secondary science teaching staff, for instance, and the 20-year veteran is rated lower than any other teacher qualified to teach secondary science, they would be the one to get laid off, in spite of their years of service.

#### **Conclusion to Methodology**

This chapter summarized the research methods that were used in a longitudinal

study of teacher evaluation scores in the Bentley School District over the course of four years, 2011 – 2015, and examines how the FFT, embedded in the evaluation process, produced instructional improvement over time and explores the interactions between the teacher and evaluator. Teachers and administrators from six buildings (four elementary, one middle school, and one high school) participated in the research. De-identified end-of-the-year evaluation data was collected on each teacher, and research methods were employed to identify statistically significant correlations, associations, and outliers. Demographic information tied to each teacher was used to sub-divide data to examine these relationships at a more granular level.

Surveys were administered to both teachers and evaluators, and questions were designed to gain an understanding of teachers' and administrators' perceptions of the FFT, the rubric, the observation process, and the evaluation process. This portion of the study allowed the researcher to examine similarities and differences between the two groups, and tests were performed to find areas that indicated statistical significance.

Textual analysis was performed on the open-ended portion of the survey, allowing for a more elaborate description of teacher and administrator perceptions of the new evaluation system. This analysis identified commonly cited outcomes, as well as unusual and unique responses to the questions. The researcher worked back and forth between the categories and the responses to verify that the classification system developed accurately sorted the data (Patton, 1990). Three broad categories emerged during the textual analysis on both teacher and administrator surveys that identified interactions that support improvement: Coaching, communication and professional development. Results of the research findings are provided in the following chapter.

## **CHAPTER 4 – RESEARCH FINDINGS**

The Bentley School District has been utilizing the Danielson Framework for Teaching (FFT) as its evaluation tool since the 2011-2012 school year. During this era of continual change in teacher evaluation processes, districts often modify the system they are using, or change parts of it from year to year. The consistency with which Bentley School District has used the FFT provided longitudinal data that helped answer the research questions. This study provides research to investigate whether the FFT, embedded into the evaluation process, produced instructional improvement over time. This was determined by measuring the extent of change (or lack thereof) in teachers' ratings over time, and identifying the interactions between teachers and administrators throughout the evaluation process that contribute to teacher performance. This chapter explores the results of the longitudinal data analysis of teacher performance, chi-square independence tests and will examine the results of both surveys, providing teacher and administrator perception data as they relate to the use of the FFT as an evaluation tool.

Data collection for this study included quantitative data collected from several sources: the longitudinal study of teacher evaluation ratings, chi-squared independence tests performed on demographic variables and teacher evaluation ratings, and both teacher and administrator surveys. Demographic variables, including years of experience, school, and gender were compared with survey questions designed to measure teacher and administrator perceptions. In addition, qualitative data from the open-ended portion of the two surveys provided insight as to the participants' experience with and perception of the FFT.

## **Quantitative Analysis**

Quantitative data were collected from three sources: Longitudinal data of teacher evaluation ratings for 4 years, teacher surveys and administration surveys. The teacher evaluation ratings were paired with details such as longevity, gender, building, grade level, and subject taught. The longitudinal data that was collected included evaluation ratings for each teacher during the school years ranging year 1 through year 4 of the study. Tables 2 - 11 organize the data in multiple ways to examine relationships and trends in demographic and evaluation information. Table 2 shows evaluation ratings from Bentley School District for all four years of the study. It is noteworthy that the district hired 18 new teachers during year three of the study, which is over 10% of the teaching staff.

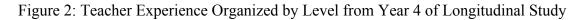
Εναιματιοή Κατ	ings: Tear I – To	eur 4		
Rating	2012	2013	2014	2015
Highly Effective	8 (5%)	41 (23%)	30 (17%)*	43 (24%)
Effective	160 (94%)	126 (71%)	141 (81%)	127 (72%)
Minimally Effective	3 (2%)	8 (5%)	1 (<1%)	6 (3%)
Ineffective	0	2 (1%)	2 (1%)	0

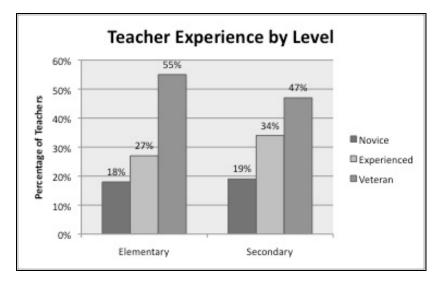
Table 2Evaluation Ratings: Year 1 – Year 4

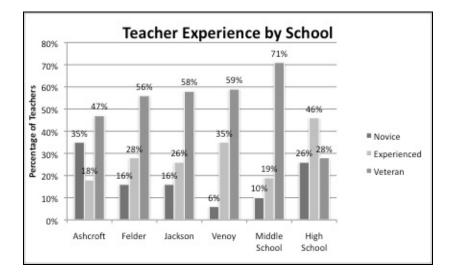
\* This drop may reflect the 18 newly hired teachers during this year (10%)

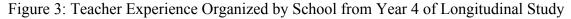
Table 3 organizes Bentley School District's teachers into groups based on longevity, the building they work in, and the content taught. This data is also displayed in Figures 2 - 5. Demographic information from the longitudinal data collection

summarized in Table 3 is based on data from the 2014-2015 school year. Data from previous years was examined and is similar. Using the 2014-2015 data provides the most current information. The longevity category consists of three groups: Novice (less than 5 years of experience), experienced (5 - 14 years of experience) and veteran (15 or more years of experience). These three categories correspond to the categories in the survey. Bentley School District has 174 teachers of record, of whom 32 (18%) are novice, 54 (31%) are experienced, and 88 (51%) are veteran teachers.









A distinction was made between teachers who teach core content (mathematics, social studies, science or English), elective content (physical education, art, music, etc.) and those who are non-classroom teachers. Non-classroom teachers include school counselors, social workers, and special education teachers. Even though they are not typical classroom teachers, they are generally still evaluated with the same tool as classroom teachers. This data is reflected in Figures 4 and 5.

Table 3

Level of Instruction	Building	Longevity	Content
Elementary	Ashcroft	Novice 6 (35%)	Core 12 (71%)
5		Experienced 3 (18%)	Elective 2 (12%)
		Veteran 8 (47%)	Non-Classroom 3 (18%)
	Felder	Novice 4 (16%)	Core 19 (76%)
		Experienced 7 (28%)	Elective 3 (12%)
		Veteran 14 (56%)	Non-Classroom 3 (12%)
	Jackson	Novice 3 (16%)	Core 13 (68%)
		Experienced 5 (26%)	Elective 4 (21%)
		Veteran 11 (58%)	Non-Classroom 2 (11%)
	Venoy	Novice 1 (6%)	Core 14 (82%)
	2	Experienced 6 (35%)	Elective 1 (6%)
		Veteran 10 (59%)	Non-Classroom 2 (12%)
Elementary (K - 5) To	tal:	Novice 14 (18%)	Core 58 (74%)
• 、 /		Experienced 21 (27%)	Elective 10 (13%)
		Veteran 43 (55%)	Non-Classroom 10 (13%)
Middle School	Pearson	Novice 4 (10%)	Core 28 (67%)
		Experienced 8 (19%)	Elective 7 (17%)
		Veteran 30 (71%)	Non-Classroom 7 (17%)
High School	Thomason	Novice 14 (26%)	Core 30 (56%)
U		Experienced 25 (46%)	Elective 15 (28%)
		Veteran 15 (28%)	Non-Classroom 9 (17%)
Secondary (6-12) Tota	1:	Novice 18 (19%)	Core 58 (60%)
• • • •		Experienced 33 (34%)	Elective 22 (23%)
		Veteran 45 (47%)	Non-Classroom 16 (17%)
District Total:		Novice 32 (18%)	Core 116 (67%)
		Experienced (31%)	Elective 32 (18%)
		Veteran 88 (51%)	Non-Classroom 26 (27%)
		( <b>C C C C C C C C C C</b>	

Demographic Information from Longitudinal Data

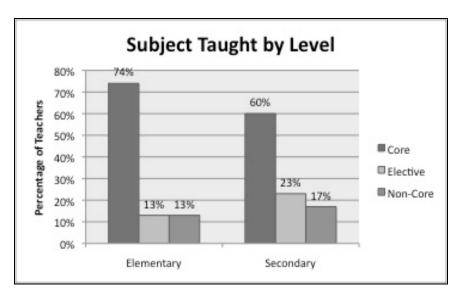
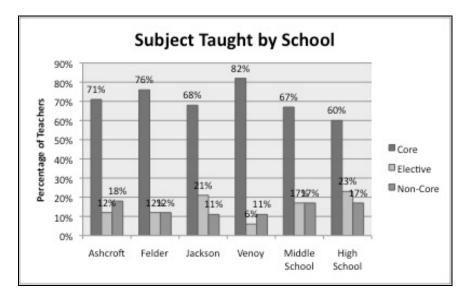


Figure 4: Subject Taught Organized by Level from Year 4 of Longitudinal Study

Figure 5: Subject Taught Organized by School from Year 4 of Longitudinal Study



A one-way repeated measures ANOVA test was conducted to examine the longitudinal data to show the change that has occurred, if any, in teacher evaluation ratings over time. Table 4 organizes the data by the number of years each teacher was evaluated. While most teachers have data for all four years, some have less due to factors such as retirement, leaves-of-absences, or being hired after 2012. Twenty-seven teachers (13%) have been evaluated for only three of the four years, and 133 (63%) have been

evaluated all four years.

Table 4

Frequency of Years Evaluated					
Number of Years Evaluated	Frequency	Relative Frequency (%)			
1	38	18%			
2	14	7%			
3	27	13%			
4	133	63%			

Insufficient data was found when looking at cases with 2 or fewer years of data. Since the set with four years of data was strongest, the study focused on the 133 cases with 4 years of data. A one-way repeated measures ANOVA was conducted to determine whether there were statistically significant differences in evaluation ratings over the course of 4 years, or between years.

When performing the one-way repeated measures ANOVA test, eight of the 131 cases were found to be outliers, and information pertaining to those cases was examined individually and is summarized later in this chapter. Outliers were determined through the use of SPSS Statistics by comparing the data point to the box plot. "Any data point that is more than 1.5 box-lengths from the edge of their box is classified as an outlier" (Laerd Statistics, 2016). The data was normally distributed, as assessed by a visual inspection of a boxplot and Shapiro-Wilk test (p > .05), respectively. The assumption of sphericity was violated, as assessed by Mauchly's test of sphericity,  $\chi^2(2) = 6.270$ , p = .043. Because Mauchly's test of sphericity found that the one-way repeated measures ANOVA violated the assumption of sphericity, a Greenhouse-Geisser correction was applied ( $\varepsilon = 0.648$ ) (Greenhouse & Geisser, 1959).

Evaluation ratings elicited statistically significant changes over time, F(2.830, 367.933) = 10.834, p < .0005, with evaluation ratings from 2012 - 2015 increasing, as

represented in Table 5.

Table 5

1 4010 5				
Evaluation Ratin	gs Over Time			
Years	Mean (M)	Difference	Standard Error (SE)	p-value (sig.)
2012 - 2015	.084		.036	.012

Friedman's Two-Way Analysis of Variance (Figure 6) and Pairwise comparisons (Figure 7) were performed (SPSS Statistics, 2012) with a Bonferroni correction for multiple comparisons. The null and alternative hypothesis for this test were:

 $H_0 =$  no change in teacher effectiveness ratings

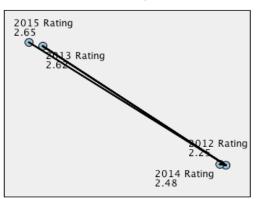
 $H_A$  = teacher effectiveness ratings change over time

Evaluation ratings exhibited statistically significant differences at the different time points,  $X^2(3) = 31.771$ , p < .0005. Post hoc analysis revealed statistically significant differences in evaluation ratings between years 1 - 4 (M = .084, SE = .036, p = .012). For the years 1 - 4, there was a statistically significant difference between means of evaluation ratings and, therefore, we can reject the null hypothesis and accept the alternative hypothesis that evaluation ratings change over time (Figure 6).

Figure 6: Friedman's Two-Way A	Analysis of Variance by Ranks
--------------------------------	-------------------------------

2012 Rating Mean Rank = 2.25	2013 Rating Mean Rank = 2.62	Mean Rank = 2	1 Rating	2015 Rating Mean Rank = 2.65	
	7				
0.0 20.0 40.0 60.0 80.0 10	0.00.0 20.0 40.0 60.0 80.0	0 100.00.0 20.0 40.0	60.0 80.0 100.0	0 20.0 40.0 60.0 80.0	100.0
Frequency	Frequency	Free	quency	Frequency	
	Total N	:	131		
	Test Statist	ic 31.3	771		
	Degrees of	Freedom	3		
	Asymptotic	Sig. (2-sided test)	000		





#### Pairwise Comparisons

Each node shows the sample average rank.

Sample1-Sample2	Test Statistic	Std. Error	Std. Test Statistic	Sig.	Adj.Sig.
2012 Rating-2014 Rating	233	.160	-1.460	.144	.866
2012 Rating-2013 Rating	374	.160	-2.345	.019	.114
2012 Rating-2015 Rating	401	.160	-2.512	.012	.072
2014 Rating-2013 Rating	.141	.160	.885	.376	1.000
2014 Rating-2015 Rating	168	.160	-1.053	.292	1.000
2013 Rating-2015 Rating	027	.160	167	.867	1.000

Each row tests the null hypothesis that the Sample 1 and Sample 2 distributions are the same. Asymptotic significances (2-sided tests) are displayed. The significance level is . 05.

05. Significance values have been adjusted by the Bonferroni correction for multiple tests.

Next, Chi-squared independence tests were performed to determine whether an association existed between teacher evaluation ratings and longevity (veteran (15+ years), experienced (5 – 14 years, and novice (0-4 years)). Chi-squared tests were also performed on evaluation ratings versus subject taught (core, elective or non-classroom), ratings versus core or non-core, and on ratings versus grade level (elementary (K – 5), middle school (6 – 8) or high school (9 – 12) as well as elementary (K - 5) versus secondary (6 - 12)). Finally, a Chi-Squared test was done comparing ratings and building, to determine if there were statistically significant differences between them.

This data is displayed in Tables 6 - 11. Each of these chi-squared tests have a null and alternative hypothesis that are related to the research questions and sub-questions. These have been identified for each test.

Expected cell frequencies were greater than five in most cases and indicated in each table. In every Chi-squared test the cell frequencies in the two rating categories "ineffective" and "minimally effective" were lower than expected. Results were ignored in those cells with less than the minimum expected frequencies of 5. In order to ensure the expected percentage of cell frequencies were as high as possible during the Chisquared analyses, data from all four years was combined.

A Chi-squared test was performed to measure the association between evaluation ratings and longevity. The null and alternative hypotheses are:

 $H_0$  = no change in teacher effectiveness ratings based on longevity

 $H_A$  = teacher effectiveness ratings change based on longevity

There was a statistically significant association between evaluation ratings and longevity,  $\chi^2(4) = 21.939$ , p < .0005. The association was small (Cohen, 1988), Cramer's V = .131. Therefore, we can reject the null hypothesis and accept the alternative hypothesis that there is an association between evaluation ratings and longevity. A cell-by-cell comparison was done to determine the impact of the adjusted standardized residuals, and to aid in understanding the nature of the evidence against the null hypothesis (Agresti, 2007, Kateri, 2014). The cell that is mostly responsible for the rejection of the null hypothesis measures the association between experienced teachers who are rated "minimally effective". The adjusted standardized residual in this case is -2.7, so fewer teachers than expected are observed in this category.

	Experience Level				
Rating	Veteran (15+)	Experienced (5-14)	Novice (1-4)		
Highly Effective	54	57	11		
Highly Effective	(.9)	(3)	(-1)		
	198	247	55		
Effective	(9)	(1.5)	(-1.0)		
Minimally Effective	6	3	9		
Minimally Effective	(6)	(-2.7)	(5.1)*		
Inoffective	3	1	0		
Ineffective	(1.4)	(9)	(7)		

Table 6Crosstabulation of Rating and Experience

*Note. Adjusted residuals appear in parenthesis below observed frequencies. \* Adjusted residual not considered due to cell expected count < 5* 

The association between evaluation ratings and subject taught was examined with two lenses. First, teachers were divided into three groups – those who taught core content, those who taught elective classes and those who were not classroom teachers. The core content category includes elementary classroom teachers and secondary teachers of mathematics, English, science and social studies. The category "non-classroom teachers" includes those teachers who are not in the classroom full time, such as counselors and special education teachers. Then the data was resorted, combining elective teachers with non-classroom teachers, leaving two categories – those who taught core subjects and those who did not. The Chi-squared tests for these two groups are summarized in Tables 7 and 8. The null and alternative hypotheses are:

 $H_0$  = no change in teacher effectiveness ratings based subject taught

 $H_A$  = teacher effectiveness ratings change based on subject taught

There was a statistically significant association found between evaluation ratings and the subject taught,  $\chi^2(6) = 14.311$ , p < .026. The association was small, Cramer's V = .101. Therefore, we can reject the null hypothesis and accept the alternative hypothesis that there is an association between evaluation ratings and the subject taught. The cellby-cell comparison of the adjusted residuals found that frequency of non-classroom teachers rated "effective" (adjusted residual = -2.0) was less than expected, the frequency of non-classroom teachers rated "highly effective" (adjusted residual = 3.1) was more than expected, and core teachers rated "highly effective" (adjusted residual = -2.4) is less than expected. Therefore, the data show that teachers of core subjects are rated lower than non-classroom teachers.

Table 7	
Crosstabulation of Rating and Subject Taught	

		Subject Taugh	t
Rating	Core	Elective	Non-classroom
Highly Effective	71	21	30
Inginy Enecuve	(-2.4)	(0)	(3.1)
Effective	380	96	78
Lifective	(1.4)	(.2)	(-2.0)
Minimally Effective	15	3	0
Minimally Effective	(1.5)	(-1)	(-1.8)
Ineffective	4	0	0
menecuve	(1.4)	(9)	(9)

Note. Adjusted residuals appear in parenthesis below observed frequencies.

When the data was resorted based on whether or not the teacher taught a core subject, a statistically significant association was found,  $\chi^2(3) = 9.065$ , p < .028. The association was small, Cramer's V = .114. Based on this, we reject the null hypothesis and accept the alternative hypothesis that there is an association between evaluation ratings and the subject taught. A cell-by-cell analysis found the frequency of core teachers rated "highly effective" was less than expected (adjusted residual = -2.4), while the frequency of non-core teachers rated "highly effective" was more than expected (adjusted residual = 2.4). This data also show that teachers of core subjects are rated lower than non-classroom teachers. This data is summarized in Table 8.

	Core / Non-core			
Rating	Core	Non-Core		
Highly Effective	71	51		
Highly Effective	(-2.4)	(2.4)		
	380	174		
Effective	(1.4)	(-1.4)		
Minimally Effective	15	3		
	(1.5)	(-1.5)		
Ineffective	4	0		
menecuve	(1.4)	(-1.4)		

Table 8Crosstabulation of Rating and Core/Non-core

Note. Adjusted residuals appear in parenthesis below observed frequencies.

Next, a Chi-squared test was conducted on evaluation ratings and grade level taught. The null and alternative hypotheses are:

 $H_0$  = no change in teacher effectiveness ratings based grade level taught

 $H_A$  = teacher effectiveness ratings change based on grade level taught

This too was sorted two ways – first by elementary (K- 5), middle school (6- 8) and high school (9 – 12) and then by elementary (K – 5) versus secondary (6 – 12). This double sorting was done to first look at the data based on how the schools in the district are organized, and then based on teachers' certification levels. A statistically significant association was found between teacher effectiveness ratings and the grade level taught with  $\chi^2(6) = 20.621$ , p < .002. The association was small (Cohen, 1988), Cramer's V = .122. We can reject the null hypothesis and accept the alternative hypothesis that there is an association between evaluation ratings and the grade level taught (see Table 9). Therefore, the data show that elementary teachers are rated higher than middle and high school teachers.

	Grade Level				
Rating	High School $(9 - 12)$	Middle School $(6-8)$	Elementary (K – 5)		
Highly Effective	34	20	68		
Inginy Effective	(4)	(-2.8)	(2.9)		
Effective	168	157	229		
Lifective	(1.1)	(2.0)	(-2.8)		
Minimally Effective	3	9	6		
Willing Effective	(-1.2)	(2.3)*	(9)		
Ineffective	0	0	4		
meneeuve	(-1.3)	(-1.2)	(2.3)*		

Table 9Crosstabulation of Rating and Grade Level

Note: Adjusted residuals appear in parenthesis below observed frequencies.

\* Adjusted residual not considered due to cell expected count < 5

When considering evaluation ratings versus elementary or secondary level teachers (collapsing middle school and high school categories into one), a statistically significant association was found,  $\chi^2(3) = 14.341$ , p < .002. The association was small, Cramer's V = .143. Here too, we can reject the null hypothesis and accept the alternative hypothesis that there is an association between evaluation ratings and the grade level taught. The adjusted standardized residual within the crosstabulation show a higher than expected frequency of "highly effective" teachers at the elementary level (adjusted residual = 2.9) and lower than expected frequency of "highly effective" teachers at the data above and indicates that elementary teachers are rated higher than secondary teachers.

Table 10Crosstabulation of Rating and Elementary/Secondary

	Level					
Rating	Elementary (K – 5)	Secondary (6 - 12)				
Highly Effective	68	54				
Inginy Encenve	(2.9)	(-2.9)				
Effective	229	325				
Effective	(-2.8)	(2.8)				
Minimally Effective	6	12				
	(9)	(.9)				
Ineffective	4	0				
menective	(2.3)*	(-2.3)*				

Note. Adjusted residuals appear in parenthesis below observed frequencies.

\* Adjusted residual not considered due to cell expected count < 5

Finally, a statistically significant association was found between teacher effectiveness ratings and the building when conducting a Chi-squared test,  $\chi^2(15) = 61.833$ , p < .0005. The null and alternative hypotheses are:

# $H_0$ = no change in teacher effectiveness ratings based on building

## $H_A$ = teacher effectiveness ratings change based on building

The association was small, Cramer's V = .172. We can reject the null hypothesis and accept the alternative hypothesis that there is an association between evaluation ratings and the building in which the teacher works. When conducting a cell-by-cell comparison of adjusted standardized residuals, several cells were noted to have absolute values large enough to provide evidence against the null hypothesis (Table 11). Specifically, two schools were found to have fewer than the expected number of "effective" teachers (adjusted residual =-3.6 and -4.2) while having more than the expected number of "highly effective" teachers (adjusted residual = 3.9 and 5.2). Another school has more than the expected number of "highly effective" teachers (adjusted residual = 2.3) and fewer than the expected number of "highly effective" teachers (adjusted residual = -2.7). Therefore, the data show that there are differences in evaluation ratings due to the building in which a teacher works.

	Building						
Rating	Ashcroft	Felder	Jackson	Venoy	Pearson	Thomason	
Highly Effective	6	10	24	27	20	34	
	(-1.9)	(-2.2)	(3.9)	(5.2)	(-2.7)	(4)	
Effective	56	87	44	40	157	168	
Enective	(1.1)	(1.8)	(-3.6)	(-4.2)	(2.3)	(.7)	
Minimally Effective	3	2	1	0	7	5	
Willing Effective	(1.1)	(4)	(6)	(-1.4)	(1.2)	(2)	
Ineffective	1	2	1	0	0	0	
mencetive	(1.1)	(2.0)*	(1.0)	(7)	(-1.2)	(-1.3)	

# Table 11Crosstabulation of Rating and Building

Note. Adjusted residuals appear in parenthesis below observed frequencies.

\* Adjusted residual not considered due to cell expected count < 5

Eight of the 131 cases were found to be outliers when performing the one-way repeated measures ANOVA test. These eight cases were examined individually and details of each case are summarized in Table 12. The details include the teachers' ratings for years one through four, the school(s) where they worked, the subject(s) and level(s) taught, the administrator who rated them and their longevity. In addition, end-of-the-year evaluation abstracts written by the administrator(s) were examined for additional information that may explain the reason why the cases were identified as outliers.

Table 12Outlier Analysis – Summary of Cases

	Year	Year	Year	Year				Long-	
Outlier	1	2	3	4	School	Subject	Level	evity	Textual Evidence
152	4	4	4	4	Felder	Core	E	1	No changes found; only case of four consecutive highly effective ratings at Felder
167	3	1	2	2	Jackson	Core	Ε	1	Change in administrator years 2- 4
210	3	3	4	3	Felder	Core	E	2	Change in grade level year 4
212	3	4	4	4	Jackson	Core	Е	2	Change in administrator years 2- 4
214	4	4	4	3	Pearson, admin	Non	S	2	Individual moved to administration in year 4
215	4	3	3	3	Jackson	Core	Е	2	Change in administrator years 2- 4
216	4	4	3	4	Pearson	Non	S	2	Lower rating in year 3 due to maternity leave
220	3	3	4	4	Pearson, Thomason	Core	S	2	Change in school and administrator years 2- 4

The outlier analysis found that in five cases ratings went down. Using textual evidence to gather more information, the researcher found there was a change in administrator, building, grade level and/or content taught in four of these five cases. The

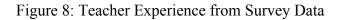
fifth case was an atypical situation in which the teacher was on a maternity leave for part of a year, and during that particular year received a lower rating than the other three years. In one case, the teacher received a rating of highly effective for four consecutive years, and this is the only instance of those ratings at the school. The other two cases showed improvement over time.

### Surveys – Quantitative Data

Quantitative data was also collected from the teacher and administrator surveys that were administered. The teacher survey was sent via email to180 teachers in the Bentley School District, and the administrator survey was sent via email to ten administrators. Prior to the email, the researcher met with each group of teachers and all the administrators to provide information about the study, its purpose, the intended use of the survey data, and was available to answer questions. The survey was created on Qualtrics and participants were sent an electronic link for access. The survey was open for approximately six weeks, and four reminder emails were sent to encourage participation. 104 of 174 teachers (59.8%) responded to the survey and 8 of 10 administrators (80%) responded.

The survey was designed to ask questions pertaining to different aspects of the FFT instrument and the new teacher evaluation process. In addition to the demographic questions, each survey was divided into three sections. The first section pertained to the FFT rubrics, the second section explored the observation process and the third section focused on the evaluation process. In addition, the questions were regrouped into three general themes to allow further investigation: Value, impact on performance, and process. Tables 13 and 14 summarize the demographic information from each survey,

and Figures 8-11 display the data visually.



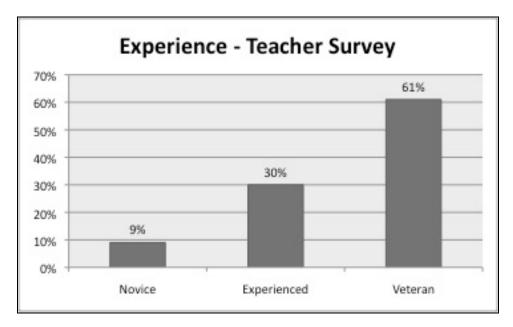
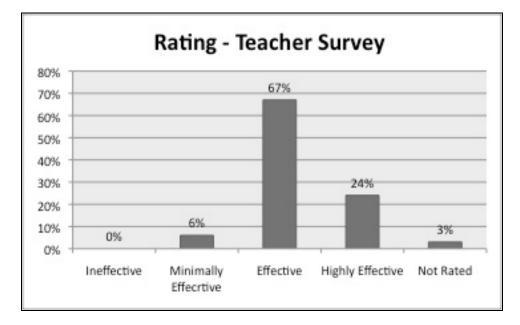


Figure 9: Teacher Evaluation Rating from Survey Data



Category	Ν	Response	Number and Percent
Gender	100	Male	22 (22%)
		Female	78 (78%)
Grade Level	104*	Elementary	47 (45.2%)
		Secondary	62 (59.6%)**
Teaching Content	(if 61	Core	38 (62.3%)
secondary)		Elective	14 (23.0%)
• /		Non-classroom	15 (24.6%)**
Years Teaching	101	Novice (0-4)	9 (8.9%)
-		Experienced (5-14)	30 (29.7%)
		Veteran (15+)	62 61.4%)
Rating (2015)	97	Ineffective	0
		Minimally Effective	6 (6%)
		Effective	65 (67%)
		Highly Effective	23 (24%)
		Not rated	3 (3%)
Building	104	Ashcroft	10 (10%)
		Felder	14 (13%)
		Jackson	10 (10%)
		Venoy	13 (13%)
		Pearson	39 (38%)
		Thomason	23(22%)*

Table 13Teacher Demographic Information from Survey

\* The total number is less than the combined total of elementary and secondary teachers because some teachers work at both levels

\*\*Total exceeds 100% because some teachers qualify for multiple categories

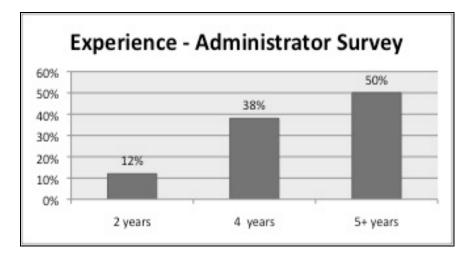


Figure 10: Administrator Experience from Survey Data

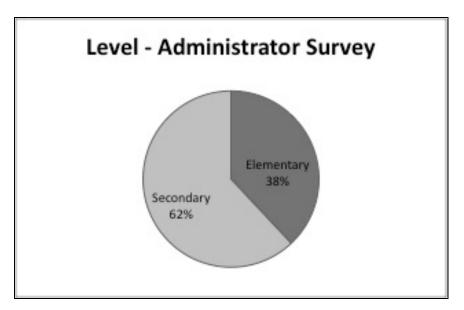


Figure 11: Administrator Level from Survey Data

Table 14	
Administrator Demographic Information from S	urvey

		·····	
Category	Ν	Response	Number and Percent
Gender	8	Male	4 (50%)
		Female	4 (50%)
Level	8	Elementary	3 (38%)
		Secondary	5 (62%)
Experience	8	2 years	1 (12%)
_		4 years	3 (38%)
		5+ years	4 (50%)

Table 15 lists the question, number of respondents (n), mean and standard deviation for both the teacher and administrator surveys. A numbering convention is used in data displays, allowing the reader to identify the survey, section and theme the question comes from. The numbering convention is as follows:

T or A: Teacher or administrator survey

R, O, E: Identifies survey section (rubric, observation or evaluation)

1-10: Question number

V, I, P: Identifies question theme (value, impact or process)

Survey question TO3V identifies the third question in the observation section of the

teacher survey, and the theme of the question is value. Additionally, new identification numbers were created for the twenty-one corresponding survey questions (those questions that are on both the teacher and administrator surveys). These questions are numbered with the section first, then the theme, and then the question number last (1-20). The survey question identified as RP2, for example, indicates the second question regarding the rubric that appears in both the teacher and administrator survey, with a theme of process.

The mean responses on the teacher survey ranged from 2.6 on question TR7V (The FFT process is insignificant to me as a professional) to 3.67 on questions TE4P and TE5P (My evaluator(s) understand the FFT thoroughly and my evaluation was conducted in a fair manner, respectively).

The administrative survey results have mean responses ranging from 1.38 on question AR5V (The FFT process is insignificant to me as a professional) to 4.63 on question AR1V (I clearly understand the purpose of using the FFT for evaluative purposes).

Questions within value, the first theme, posit about the purpose and usefulness of the evaluation instrument, perceptions, and practical use. The second theme, impact on performance, gages whether or not teachers are motivated as a result of the process, and whether this translates into an increase in student engagement, student achievement, teacher reflection and/or a change in instructional practices. Process, the third theme, includes questions that are designed to elicit information about the overall evaluation process. Respondents are questioned about the consistency, accuracy and fairness with the FFT. This includes perceptions of fidelity of implementation, communication throughout the process, expectations, training and level of understanding.

Table 15

Side-by-side Comparison of Teacher and Administrator Survey Results

Side-	by-side Comparison of Teacher and Administrator Survey Re.	suus		Standard	Cumura
	Question	Ν	Mean	Standard deviation	Survey item
Joint	Question from teacher survey – no parenthesis	t	t	t	t
ID	(Administrator survey questions - if worded differently - parenthesis)	(a)	(a)	(a)	(a)
RV1	I clearly understand the purpose of using the FFT to evaluate my	98	3.65	1.25	TR1V
	work.	(8)	(4.63)	(.52)	(AR1V)
	(I clearly understand the purpose of using the FFT for evaluative	(-)	()	()	
	purposes.)				
RP2	The rubrics in the FFT are easily understood.	98	3.45	1.16	TR2P
		(8)	(3.38)	(.92)	(AR2P)
RV3	The rubrics in the FFT are consistent with my beliefs about what	98	3.4	1.2	TR3V
	constitutes effective teaching.	(8)	(4.25)	(.46)	(AR3V)
RI4	The FFT provides a common language for me to discuss teaching	98	3.44	1.18	TR4I
	practices with colleagues.	(8)	(4)	(.53)	(AR4I)
	(The FFT provides a common language for me to discuss teaching	. /			
	practices with teachers.)				
	I know what I need to do in order to achieve the top level of	98	3.09	1.36	TR5P
	performance on the FFT.				
	I believe that it is possible for me to meet the top level of performance	98	2.83	1.49	TR6I
	on the FFT.				
RV5	The FFT process is insignificant to me as a professional.	98	2.6	1.24	TR7V
		(8)	(1.38)	(.52)	(AR5V)
OV6	The observation process helps me to be reflective in my practice.	98	3.35	1.24	TO1V
	(The observation process helps teachers to be reflective in their	(8)	(3.5)	(1.07)	(AO1V
	practice.)				)
OP7	The qualitative feedback I receive as part of the evaluation process is	98	3.3	1.17	TO2P
	clearly connected to the FFT rubric.	(8)	(3.88)	(.64)	(AO2P)
	(I clearly relate my qualitative feedback to the FFT rubric.)				
OV8	The qualitative feedback accurately describes my performance.	98	3.06	1.17	TO3V
	(The qualitative feedback accurately describes teacher performance.)	(8)	(3.88)	(.35)	(AO3V
0.10		0.0	2.10		)
OI9	The qualitative feedback helps me to improve my performance.	98	3.18	1.11	TO4I
	(The qualitative feedback provided helps teachers improve their	(8)	(3.5)	(.93)	(AO4I)
0110	performance.)	0.0	0.50	1.20	TO 50
OI10	The observation is long enough in duration for my evaluator to get an	98	2.78	1.32	TO5P
	accurate depiction of my performance.	(8)	(3.38)	(1.3)	(AO5P)
	(The observation is long enough in duration for me to get an accurate				
01/11	depiction of my performance. )	0.0	0.00	1.25	TOOL
OV11	I regularly have written conversations with my evaluator(s) following	98	2.66	1.25	TO6V
	an observation.	(8)	(2.88)	(1.55)	(A06V)
	(I regularly have written conversations with teachers following an				
	observation.)				

	Question	N	Mean	Standard deviation	Survey item
Joint	Questions from teacher survey – no parenthesis	t	t	t	t
ID	(Administrator survey questions - if worded differently - parenthesis)	(a)	(a)	(a)	(a)
OV12	I regularly have oral conversations with my evaluator(s) following an	98	3	1.32	TO7V
	observation.	(8)	(3.38)	(1.41)	AO7V)
	(I regularly have oral conversations with teachers following an				
	observation.)				
OI13	The discussions I have with my evaluator(s) help me to improve my	98	3.19	1.15	TO8I
	performance.	(8)	(4.13)	(.99)	(AO8I)
	(The FFT process has encouraged me to discuss effective teaching practices with teachers.)				
EP14	I know what is expected in order for me to do well using the current	97	3.38	1.22	TE1P
	evaluation process.	(8)	(4.13)	(.99)	(AE1P)
	(It is possible for teachers to meet the top level of performance	. /	· /	× /	
	(distinguished).)				
EP15	The evaluation process is implemented consistently throughout my	97	2.98	1.32	TE2P
	school.	(8)	(3.88)	(.83)	(AE2P)
	The processes and procedures used for my evaluation are fair.	97	3.12	1.18	TE3P
EP16	My evaluator(s) understand the FFT thoroughly.	97	3.67	1.20	TE4P
	(I understand the FFT thoroughly)	(8)	(3)	(.76)	(AE3P)
	My evaluation was conducted in a fair manner.	97	3.67	1.18	TE5P
EP17	My evaluator(s) spends adequate time observing my instruction in	97	3.08	1.34	TE6P
	order to form a basis to assess my performance using the FFT.	(8)	(3.63)	(.92)	(AE4P)
	(I spend adequate time observing teachers in order to form a basis to				
	assess their performance using the FFT.)				
EI18	I have changed my instructional methods as a result of using the FFT	97	3.32	1.2	TE7I
	as part of the evaluation process.	(8)	(4.25)	(.71)	(AE5I)
	(I have observed teachers changing instructional methods as a result				
	of using the FFT as part of the evaluation process.)				
	The achievement of my students has improved as a result of using the	97	2.86	1.1	TE8I
	FFT process.				
EI19	The engagement of my students has improved as a result of using the	97	2.84	1.11	TE9I
	FFT process.	(8)	(3.25)	(.104)	(AE6I)
	(The engagement of students has improved as a result of using the				
	FFT process.)				
EV20	In general, the FFT process is valuable to me as a professional.	97	2.87	1.19	TE10V
	(In general, the evaluation process is valuable to our district.)	(8)	(3.25)	(.89)	(AE8V)
	The evaluation process could be improved.	(8)	(3.5)	(1.31)	(AE7P)
EV21	My evaluation score accurately describes my performance.	91	1.4	.49	TE11V
	(The evaluations I write accurately describe teacher performance.)	(8)	(1)	(0)	(AE9V)
		-			

Table 15: Side-by-side Comparison of Teacher and Administrator Survey Results (con't.)

In cases where data is entered for both teachers and administrators, the teacher (t) data is on top and the administrator (a) data is on the bottom of the cell.

A Mann-Whitney U test was run to determine if there were significant differences in survey answers between teachers and administrators for the twenty-one corresponding survey questions. The null hypothesis was that there was no association between the independent and dependent variables and the alternative hypothesis was that there is an association between the independent and dependent variables. Independent variables include the building, level, content, and experience and they are related to each survey question (dependent variable). Distributions of the survey scores for teachers and administrators were similar in all cases but one (OV11), as assessed by visual inspection. In this one case, there was not a statistically significant difference in the survey scores for teachers (mean rank = 52.7) and administrators (mean rank = 56.69), U = 358.5, z =-.366, p = .715.

There was a statistically significant difference in the survey scores of teachers and administrators for 7 of the 21 corresponding questions. Table 16 reports the results of the Mann-Whitney U test for the seven questions showing statistically significantly different results. The table includes the question, number of respondents (n), the mean rank, the median (Mdn), the Mann-Whitney U score (U), the z-score (z) and the level of significance (p). These seven questions are listed below and parenthesis indicate differences between the teacher and administrator surveys:

- I clearly understand the purpose of using the FFT (to evaluate my work/for evaluative purposes).
- The FFT process is insignificant to me as a professional.
- The qualitative feedback accurately describes (my/teacher) performance.
- The FFT process has encouraged me to discuss effective teaching practices with (my evaluators/teachers).
- The evaluation process is implemented consistently throughout my school.
- In general, the evaluation process is valuable (to me as a professional/to our district)
- (My evaluation score/the evaluations I write) accurately describe (my/teacher) performance.

The nonparametric Kruskal-Wallis H test was used to determine if there are statistically significant differences between independent variables (building, level,

content, and experience) for each question (dependent variables). First, the test was run to calculate differences in the scores among the six buildings. Distributions of survey scores were similar for all groups, as assessed by visual inspection of a boxplot. Median survey scores were statistically significantly different between groups for 13 survey questions. Results of these cases are listed in Table 17. For each of these cases, pairwise comparisons were performed using Dunn's (1964) procedure with a Bonferroni correction for multiple comparisons. Statistical significance was accepted at the p < .0083 level. The results of each post hoc analysis revealing statistically significant differences in survey scores between the buildings are also detailed in Table 17.

Table 16		
Statistically Significant Results of the M	1ann-Whitney	, U Test
	Moon	Maan

				Mean	Mean			
		Mdn	Mdn	rank	rank			
Question	n	(teachers)	(admins)	(teachers)	(admins)	U	Z	р
RV1	104	4	5	50.57	75.63	199	-2.382	.017
RV5	105	2	1	55.15	26.88	179	-2.601	.009
OV8	105	3	4	51.34	73.13	227	-2.028	.043
OI13	105	3	4	51.04	76.75	198	-2.396	.017
EP15	105	3	4	51.36	72.94	228.5	-1.98	.048
EV20	105	3	4	50.98	77.44	192.5	-2.436	.015
EV21	99	1	1	48.37	68.5	216	-2.267	.023

\* indicated statistically significant results (p < .05)

Table 17

Statistically Significant Results of the Kruskal-Wallis H Test

Survey	· - · · · · · · · · · · · · · · · · · ·	Statistically significant differences found between
Item	Kruskal-Wallis H Test	buildings:
TR1V	$\chi^2(5) = 15.726, p = .008$	Venoy (Mdn = $2.0$ ) and Felder (Mdn = $4.0$ )
		Venoy and Jackson ( $Mdn = 5.0$ )
		Venoy and Ashcroft ( $Mdn = 4.0$ )
TR2P	$\chi^2(5) = 22.539, p = .001$	Jackson (Mdn = 4) and Venoy (Mdn = 2)
		Jackson and Pearson (Mdn $=$ 3)
TR3V	$\chi^2(5) = 16.546, p = .005$	Venoy (Mdn = $2.5$ ) and Jackson (Mdn = $5$ )
TR4I	$\chi^2(5) = 22.575, p = .001$	Venoy $(Mdn = 2)$ and Jackson $(Mdn = 5)$
		Venoy and Ashcroft ( $Mdn = 4$ )
TR7V	$\chi^2(5) = 21.888, p = .001$	Jackson (Mdn = 1) and Venoy (Mdn = $3.5$ )
		Jackson and Pearson ( $Mdn = 3$ )
		Jackson and Thomason (Mdn = 3)

ItemKruskal-Wallis H TestStatistically significant differences found between buildTO1V $\chi^2(5) = 17.762$ , p = .003Venoy (Mdn = 2) and Jackson (Mdn = 4)TO4I $\chi^2(5) = 18.649$ , p = .002Venoy (Mdn = 2) and Jackson (Mdn = 4)TO8I $\chi^2(5) = 20.683$ , p = .001Venoy (Mdn = 2) and Felder (Mdn = 4)Venoy and Pearson (Mdn = 4)Venoy and Felder (Mdn = 4)Venoy and Pearson (Mdn = 3)Venoy and Felder (Mdn = 3)TE4P $\chi^2(5) = 22.538$ , p = .001Venoy (Mdn = 2) and Pearson (Mdn = 4)Venoy and Felder (Mdn = 5)Venoy and Felder (Mdn = 5)Venoy and Felder (Mdn = 5)Jackson (Mdn = 5)TE7I $\chi^2(5) = 17.912$ , p = .003Jackson (Mdn = 4)Jackson and Felder (Mdn = 5)Jackson and Felder (Mdn = 4)Jackson and Venoy (Mdn = 1.5) and Felder (Mdn = 3)Venoy and Jackson (Mdn = 3)TE9I $\chi^2(5) = 29.170$ , p = .001Venoy (Mdn = 1) and Ashcroft (Mdn = 4)Venoy and Jackson (Mdn = 4)Venoy and Jackson (Mdn = 4)Venoy and Jackson (Mdn = 1)Venoy and Jackson (Mdn = 4)Venoy and Jackson (Mdn = 1) and Ashcroft (Mdn = 4)Venoy and Jackson (Mdn = 4)Venoy and Jackson (Mdn = 1)Venoy and Jackson (Mdn = 4)Venoy and Jackson (Mdn = 1)Venoy and Jackson (Mdn = 4)Venoy and Jackson (Mdn = 1)Venoy and Jackson (Mdn = 4)Venoy and Jackson (Mdn = 1)Venoy and Jackson (Mdn = 4)Venoy and Felder (Mdn = 4)Venoy and Felder (Mdn =	
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$\begin{array}{c} \mbox{Jackson and Venoy (Mdn = 2.5)} \\ \hline TE9I & \chi^2(5) = 19.286, p = .002 & Venoy (Mdn = 1.5) and Felder (Mdn = 3) \\ & Venoy and Jackson (Mdn = 4) \\ & Venoy and Thomason (Mdn = 3) \\ \hline TE10V & \chi^2(5) = 29.170, p = .001 & Venoy (Mdn = 1) and Ashcroft (Mdn = 4) \\ & Venoy and Jackson (Mdn = 4) \\ \hline Venoy and Jackson (Mdn = 4) \\ \hline \end{array}$	
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Venoy and Jackson (Mdn = 4)	
Venov and Felder (Mdn = $4$ )	
venoy and redet (mun - 4)	
Pearson (Mdn = 3) and Jackson (Mdn = 4)	
TE11V $\chi^2(5) = 19.461$ , p = .002 Pearson (Mdn = 0) and Jackson (Mdn = 1)	
Pearson and Felder (Mdn = 1)	

Table 17: Statistically Significant Results of Kruskal-Wallis H Test (con't.)

Finally, the Kruskal-Wallis H test found a statistically significant difference between evaluation ratings when grouped by experience level,  $\chi^2(3) = 11.664$ , p = .003. Pairwise comparisons were performed with a Bonferroni correction for multiple comparisons for the survey question, "My evaluation rating for the 2014/2015 school year was [x]". Statistical significance was accepted at the p < .0167 level. This post hoc analysis revealed statistically significant differences in evaluation ratings between the novice (Mdn = 2.5) and experienced (Mdn = 3) (p = .001) and novice and veteran (Mdn =3) (p = .001) experience groups, but not between the experienced and veteran groups.

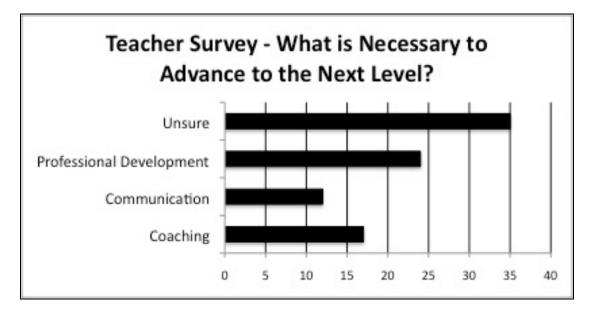
# **Qualitative Analysis**

A logical analysis was conducted on open-ended questions from the surveys. The responses were identified and sorted by recurring themes, and were used to identify key

ideas, teacher/administrator interactions, misconceptions, positive and negative aspects of the process and suggestions for improvement.

Three broad categories emerged during the textual analysis on the teacher survey, two of which also appeared on the administrator survey, identifying interactions that support improvement. Coaching and professional development are the categories that represented answers by both teachers and administrators. The third category mentioned by teachers was communication. In addition, 34 respondents (43%) indicated that they were unclear or did not know what they needed to do in order to improve. This is represented by the category "unsure" on the graph (Figure 11). In addition to the categories coaching and professional development, reflection was also indicated as a necessary attribute to advance to the next level on the FFT (Figure 12).

Figure 12: Teacher Responses – What is Necessary to Advance to the Next Level?



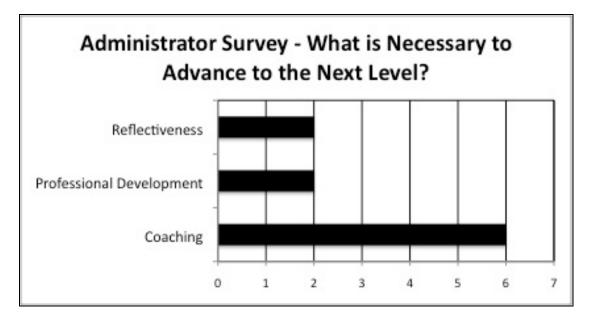


Figure 13: Administrator Responses – What is necessary to Advance to the Next Level?

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Many teachers and administrators commented on positive and negative aspects of the evaluation process, as well as made suggestions for improvement. Misconceptions about the process were also observed. These responses are summarized and organized in Table 18. Although the comments in table 18 are not a complete listing of comments from the survey results, they are listed to offer a snapshot of the feedback given by both teachers and administrators.

## Table 18

Summary of Comments from Teacher and Administrator Surveys
Teacher Survey – Comments Organized by Type (from 79 total respondents)
Positive Aspects
• The FFT rubrics can be a valuable evaluation and self-reflective tools, but only if and when
implemented appropriately
• The administrator(s) are very fair in listening during the post-observation conversations
<ul> <li>The FFT gives a good foundation to build from in the post-observation conversations</li> </ul>
• I like the FFT to use as a guide – it has helped me to me more mindful of asking deeper
questions and sharing learning targets with students
<ul> <li>The FFT is helpful during the formative years of teaching</li> </ul>

Table 18: Summary of Comments from Teacher and Administrator Surveys (con't.)

Conce	
	• The FFT is too wordy and too difficult to understand
	• The highly effective rating is far too ethereal with no clear path to achievement
	<ul> <li>Teaching is more than a stringent framework one should follow – it is a something that change with every child encountered and nothing can effectively measure that except the child</li> </ul>
	impacts
	• The FFT can lead to teachers staying in a rut simply because what they are doing is good enoug
	• The current process does not reward teachers to take calculated risks in their classroom for th
	fear they would score lower then they have in the past.
Sugges	
	• The evaluation should be set so that all to most teachers can get highly effective – as teachers
	that is our goal for students and it seems impossible to achieve with the FFT
	• We need to focus on collaboration, versus competition
	• The labels of highly effective, effective, minimally effective, and ineffective are unfai
	misleading and inadequate
	• More professional development needs to take place in understanding the rubric for instructional
	use
	<ul> <li>Principals should focus more on teachers (who) are struggling</li> </ul>
	nceptions
	• It's only for teachers who live and breath (sic.) work
	• The superintendent only allows certain numbers of teachers to be assigned the "highly effective
	rating
	• A formal "mission statement" in my classroom is necessary to become a highly effective teache
	• Factors like teacher/student relationships are not considered
	• Administration gives most teachers an effective rating because they know it will cause the lea
	amount of conflict
	There is (sic.) no criteria for "highly effective"
lminist	crator Survey – Comments Organized by Type (from 8 total respondents)
Positiv	re Aspects
	• As a whole, the district has made notable strides towards improving classroom instruction
	thanks to the quality coaching conversations that cultivate from the FFT
	• I have seen shifts in teacher practice; I believe this is not due to the FFT as much as it is to
	ongoing professional development and modeled lessons
Conce	rns
	• Number of evaluations - time in classrooms rather than number of times in classrooms (short
	snip-its do not provide opportunities to see many of the true qualities of what is happening in a
	classroom (would longer evaluations less often with more cultural visits be more effective?)
	• When the administrator is the one that is doing the coaching, true coaching does not occur, as
	the teacher views the coaching as an evaluative process rather than a helpful process
	• There is a disconnect between the FFT and teachers - teachers are not familiar with it enough
	to utilize it in their practice or during reflection
C	- Maria -
Sugge	
	• Coaching teachers about what the framework looks and sounds like within their practice needs development
	• Ongoing training in the evaluation process, including discussions on what each level of
	effectiveness looks like

## **Conclusion to Research Findings**

The aim of this study was to determine whether teacher evaluation using the FFT produces instructional improvement over time, and to identify specific interactions between teacher and evaluator that contribute to teacher performance. The longitudinal study and survey data yielded key findings related to the research questions.

Key findings revealed from the longitudinal study include:

- Teacher evaluation ratings increased significantly during a novice teacher's first four years of teaching, whereas teacher evaluation ratings of experienced and veteran teachers did not increase at a statistically significant level.
- Long term increases in ratings show a statistically significant association indicating the importance of maintaining consistency over several years.
- Overall, fewer teachers than expected were rated minimally effective, calling into question the differences in labeling conventions between the state and the FFT and the depth of the categories in the FFT rubric.
- Some schools had evaluation ratings that were different than expected, indicating the need for ongoing professional development, collaboration and training for administrators.
- Elementary teachers are more likely to be rated highly effective than secondary teachers.
- Teachers of elective classes and non-classroom teachers are more likely to be rated highly effective than those who teach core content.

Key findings from the teacher and administrator surveys include:

• There are a number of discrepancies between administrator and teacher

perceptions indicated by the survey results.

- The majority of differences between teacher and administrator perceptions are questions pertaining to the value of the process.
- One building shows significant differences in numerous areas.
- Both teachers and administrators identified coaching and professional development as tools for improvement on the FFT.
- 43% of teacher survey responses revealed the teacher did not know how to advance to the next level on the FFT.
- A number of teachers have misconceptions regarding the FFT, the evaluation process, or both.

The teacher evaluation process used by Bentley School District consists of several classroom observations and post-observation interactions between teacher and administrator, with an emphasis on implementing effective teaching strategies as detailed in the FFT. This evaluation process and the FFT rubric that is used by the district was examined to assess its appropriateness in measuring and evaluating the complex profession of teaching. The data analyses performed in this chapter are the basis for the conclusions and recommendations that are presented in the following chapter.

#### **CHAPTER 5: SUMMARY, DISCUSSION AND RECOMMENDATIONS**

The evaluation of teachers is not new; in fact, administrators have always been responsible for staff performance and evaluation. Most school districts had developed evaluation models, often in collaboration with teachers and teachers' unions, which were specific and detailed. A recent wave of new legislation throughout the country, and Michigan in particular, has forced districts to revamp their evaluation systems, in many cases quite drastically. In an effort to comply with the Michigan law (Legislative Council, 2011) and the aggressive timelines contained therein, district officials have scrambled to find effective tools to serve the purpose of evaluating teachers.

A major catalyst for the change came about after *The Widget Effect* (Weisberg, Sexton, Mulhorn, and Keeling, 2009) was published, when nearly exclusively positive teacher evaluations were starkly juxtaposed with mediocre student standardized test scores. The report pointed out the high percentage of teachers who were rated as being satisfactory in their job performance (94-98%), and that less than 1% were rated ineffective. In Michigan, this ultimately translated into the revision of school code section 380.1249, prohibiting teacher evaluation as a subject of bargaining, and requiring that districts use student growth and assessment data in conjunction with one of the recommended performance evaluation systems, of which the FFT is one (Legislative Council, 2011). The law further states that the performance evaluation tool include frequent, short classroom observations with feedback provided to the teachers.

This study examined one of the most commonly used teacher evaluation tools, Charlotte Danielson's Framework for Teaching (FFT), to determine whether it produce instructional improvement over time when embedded into the evaluation process. This study also strives to identify those interactions between teachers and administrators that contribute to improved teacher performance. The FFT was designed to assess all the complexities inherent in the art of teaching, cutting across grade levels, subject areas and experience levels. The FFT identifies key performance standards that are organized into four domains of professional practice: planning and preparation, the classroom environment, instruction and professional responsibilities (Danielson, 2007). Each domain is further divided into performance components and elements. The FFT was not developed to be the evaluation tool it is commonly used for today; rather, its intended purpose is to help educators improve their practice and identify effective teaching strategies, and its recommended process relies heavily upon collaboration and professional conversations between evaluators and teachers.

The study found that a positive change in evaluation scores over time has occurred, and the reasons for the change will be explored in this chapter. The research questions and underlying questions are:

- 1.) Does teacher evaluation using the FFT produce instructional improvement over time?
  - a. Does the change indicate that the teachers are getting better at their practice?
  - b. Does the FFT adequately inform educators about their practice, and if so how?
  - c. Do some groups of teachers, such as early elementary teachers or veteran teachers, show greater growth than others?
  - d. Are there limitations to the tool, such as differences between the four

levels of effectiveness?

- 2.) What interactions around the FFT between evaluator and teacher contribute to teacher performance?
  - a. What are some of the interactions around FFT that contribute to teacher performance? Are some types of interactions more helpful than others?
  - b. Do teachers and administrators have a clear understanding of the FFT? Do they find value in the FFT?
  - c. Do teacher and administrator groups have similar beliefs/views regarding the evaluation process?
  - d. Do sub-groups of teachers have similar beliefs/views regarding the evaluation process?

This research studied the FFT to determine whether the FFT produced instructional improvement over time, and analyzed the interactions between administrators and teachers that contribute to teacher performance. Bentley School District was chosen as a case study for several reasons. First, the district used the FFT as its evaluation tool with fidelity during the duration of the study: from 2011 – 2015. It is rare to find a district in Michigan that has been using the same tool for such a long period of time, given the continuous changes in the law. Secondly, all administrators and teachers participated in 24 hours of professional development in the fall of 2011, providing foundational knowledge to all stakeholders. Lastly, all district administrators have had training as evaluators in the FFT, and most are certified evaluators for the FFT.

The first research question was studied by using a one-way repeated-measures ANOVA test for all cases that included four years' worth of data. Demographic variables (longevity, school, grade level, subject) were then examined to determine if associations exist and if so, the extent to which they were statistically significant. Survey data were used to gain a better understanding of the beliefs and views of teachers and administrators, and to add depth to the research questions being asked. A textual analysis was performed in cases involving outliers.

Survey data were collected, summarized and analyzed to gain insight into both teacher and administrator experiences with and perception of the FFT, using a cross-variable analysis to determine what associations exist between variables. Mann Whitney U tests were conducted to determine whether the data show statistically significant differences between teachers and administrators, and the non-parametric Kruskal-Wallis H test was run to examine differences among variables (buildings, experience level, content taught, etc). Finally, qualitative elements of the study provided the researcher with a better understanding of how a teacher's practice is impacted by frequent, informal classroom observations and feedback using the FFT.

This research identified some key findings pertaining to how well the FFT produced instructional improvement over time, and identified specific interactions that contribute to teacher performance. These are presented and discussed below.

### **Research Question #1 – Key Findings**

Data from the longitudinal study and survey questions were used to examine the first research question and its sub-questions. The question asked, "Does teacher evaluation using the FFT produce instructional improvement over time?" Longitudinal data show teacher evaluation ratings changed significantly over time and the mean rank increased from 2.25 in year 1 to 2.65 in year 4. This answers the sub-question, "Does the

change indicate that the teachers are getting better at their practice" affirmatively. Yearto-year associations were not always significant and the strongest association was between years 1 and 4. This suggests that while the FFT does result in instructional improvement over time, it can fluctuate from year to year, supporting the notion that the consistency to which districts maintain an evaluation tool is important for long-term improvement in teacher performance. The FFT is quite extensive, involving 4 domains, 22 components and 76 smaller elements, all described at four different performance levels. It takes time for teachers and administrators to become familiar with the tool, and to successfully implement sound instructional practices as suggested by the FFT.

Teacher responses to survey question EI18, "I have changed my instructional methods as a result of using the FFT as part of the evaluation process" were positive, with 53% of teachers responding "agree" or "strongly agree." One teacher responded that the FFT "helped me to be more mindful of asking deeper questions and sharing learning targets with students." In spite of a positive response on this question, however, very few teacher comments supported or detailed the notion of improved instructional strategies due to the evaluation process. In fact, comments indicated that some teachers view the FFT not as a tool for personal improvement, but solely as an evaluation instrument. Thirty-four teachers (43%) reported that they did not know what was necessary to improve. One teacher explains, "I don't think it has made a huge impact on my practice. Teachers know what to do to improve." Another teacher shared, "There are too many things in the evaluation that are out of my control," and another expressed that improvement was impossible and "many teachers feel defeated by this rubric."

Similar results were found by White, Cowhy, Stevens & Sporte (2012) in their study aimed at understanding how teachers and administrators perceived the system. The challenges they encountered included utilizing the evaluation process to improve instruction, creating buy-in from participants, and reducing the time burden on administrators. Time and consistency may improve teachers' perceptions of the evaluation system. It is important to remember that the cycle of observation, feedback, discussion centered on instructional strategies, best-practices and coaching is substantially different than what has been done in the past. However, as long as highstakes decisions involving layoffs and job security are connected to this process, the less likely teachers will view it as anything other than an evaluation, let alone as a coaching model.

On the other hand, every administrator, when asked if they have observed teachers changing their instructional strategies, indicated a positive response. One remarked, "The whole district has made notable strides towards improving classroom instruction." Another noted that they "have seen shifts in teacher practice," although they attribute the change not only to the use of the FFT, but to other elements, such as professional development, as well.

Fewer teachers than expected were rated "minimally effective." The same is likely true for those rated "ineffective" but due to the low count in that category, the Chisquare test did not meet the assumption of having a minimum expected frequency of five. Most teachers receive one of the two ratings, "effective" or "highly effective." Fiftypercent (50%) of those rated "minimally effective" are novice teachers, and the other 50% make up the remaining two groups: experienced (16.7%) and veteran (33.3%). The state's labeling or verbiage of effectiveness levels does not match the FFT's categories of proficiency, and this may have an impact on how the various levels are interpreted by teachers and administrators.

A considerable discrepancy between the FFT and the State of Michigan's rating system is the word choice, or verbiage, used for labeling the categories. Whereas the State of Michigan uses the categories "ineffective, minimally effective, effective, and highly effective," the FFT uses "unsatisfactory, basic, proficient, and distinguished," respectively. Most notably, the FFT level of "basic" corresponds to the State of Michigan's level of "minimally effective". When administrators rate teachers "basic" according to the FFT, it is translated to "minimally effective" on their evaluation, often causing teachers anxiety and mistrust in the evaluation tool. One teacher comments, "the labels of highly effective, effective, minimally effective and ineffective are unfair, misleading and inadequate." If lawmakers changed the "minimally effective" label to "basic" it would align better with the FFT and would help these teachers accept their rating and strive for improvement. Even first year teachers are put off by the label, "minimally effective," because of the negative connotation associated with it. Additionally, administrators are more apt to give teachers a "basic" score than "minimally effective," allowing them to utilize the FFT with greater fidelity.

Overall, fewer teachers than expected were rated minimally effective, calling into question not only the differences in labeling conventions between the state and the FFT, but also the depth of the categories in the FFT rubric. With so few teachers falling into the "minimally effective" or "basic" level of the FFT, perhaps the categories ought to be expanded, moving from 4 proficiency levels to five or six. As stated by one administrator, "the 'proficient' level of the FFT encompasses a wide range of teacher abilities. The difference between a 'low proficient' and a 'high proficient' is extreme." A revised rubric, with more proficiency levels, would allow for more accurate feedback and more concise explanations. This would also help address teachers' concerns that it is too difficult to move to the next level of the FFT.

Research question 1b asks, "Does the FFT adequately inform educators about their practice, and if so, how?" Seven survey questions directly inform this question, four of which teachers responded positively to and three of which showed negative responses. These questions and their percentage of positive responses were:

- OV6 The observation process helps me to be reflective in my practice (61%)
- OP7 The qualitative feedback I receive as part of the evaluation process is clear (55%)
- EP14 I know what is expected in order for me to do well using the current evaluation process (59%)
- EP15 The evaluation process is implemented consistently throughout my school (41%)
- EI18 I have changed some of my instructional methods as a result of using the FFT (53%)
- TE8I The achievement of my students has improved as a result of using the FFT (29%)
- EI19 The engagement of my students has improved as a result of using the FFT (28%)

While a number of teachers did not respond positively to OV6, OP7, EP14, and EI18, more than half of the teachers did. This indicates that teachers find the observation process and feedback from administrators helpful to them, and many claim to have changed instructional practices as a result. Interestingly, 59% indicate that they know what is expected in order for them to do well, which is in contrast to the number of teachers who wrote in the comments that they were unclear of the expectations. This draws attention to the fact that teachers are split when it comes to understanding the expectations and process. A number of teachers identify lack of communication as the reason for the ambiguity: "No feedback has ever been given to guide me," "I'm not really sure what my rating is based on," "when I asked my administrator I was not given a straight answer," and "this wasn't clarified." It will be important, moving forward, that the expectations and process is clarified and continually communicated to stakeholders. The shift in the evaluation process is substantial, and impacts teaching at all levels. It is vital that districts clearly communicate the rationale and the process, and revisit it often.

The importance of effective communication, particularly in areas involving highstakes decisions such as teacher evaluations, cannot be over-emphasized. District leaders must clearly and continually articulate a clear rationale to teachers, using multiple modes of communication. This study uncovered a discrepancy between administrators, who perceive that the details have been communicated, and some (not all) teachers, who do not have clarity regarding the process. Effective communication involves identifying the purpose as well as the details, and revisiting it often. The communication divide may be caused from an ambiguously defined purpose. Whereas administrators view one of the main evaluation goals as improving and supporting classroom instruction, many teachers tend to see it as a way to rank their ability against others' ability. This communication, ideally from an administrator who has built trust with his staff, is necessary if teacher evaluation is to move from a process imposed upon the educational community to a useful practice. Darling-Hammond contends that this process must move away from being an obstacle or an impediment (2013). A clarification and ongoing statement of the purpose, as it relates to students, will be important moving forward.

The next part of the study examined similarities and differences between teacher groups, answering question 1c, "Do some groups of teachers show greater growth than others?" Question 2d, "do sub-groups of teachers have similar beliefs/views regarding the evaluation process" is answered in conjunction with 1c, as the sub-groups are the same and both questions found statistically significant associations. Data for these questions were compiled by looking for associations between teacher ratings and the following demographic groups in both the longitudinal study and the survey data: longevity, building, subject taught, and level (elementary vs. secondary).

As expected, there is a statistically significant association between longevity and evaluation ratings. This association is true when comparing novice teachers to both experienced and veteran teachers. There is not, however, a statistically significant association between experienced and veteran teachers. This highlights the growth inherent in the first four years of a teacher's career. Administrators, mindful of this, will expend resources and invest in the development of their novice teachers during this critical time. Survey date show the same results.

A similar statistically significant association was found between teacher evaluation ratings and the school in which the teacher taught. There were two schools that had fewer than the expected amount of "effective" teachers, while having more than the expected amount of "highly effective" teachers, and one school that had more than the expected amount of "effective" teachers and less than the expected amount of "highly effective" teachers. One of the schools with a higher than expected number of highly effective teachers has a novice staff (less than five years' experience) of 6%, possibly contributing to these results. This does not hold true with the other schools in question, however. These differences could also be influenced by the differences found in labeling conventions for various levels of proficiency between the state and FFT, and how this in interpreted by different administrators, as described above. In a similar study, Milanowski (2011) found that procedural variations could impact the reliability of the ratings, underscoring the importance of inter-rater reliability.

When the data were examined by building, there were statistically significant differences on a number of questions on the teacher survey. Table 14 lists the questions and indicates the question type and theme. A close analysis of the building findings show that responses from one specific school are responsible for creating statistically significant differences in 92% of the questions. The questions were sorted by type and theme, and 46% of the questions fell into the "value" category. For that school, teachers are more likely to:

- Misunderstand the FFT rubrics and the purpose of using the FFT.
- Find the FFT rubric to be inconsistent with what constitutes effective teaching.
- Find the FFT process to be insignificant to them as professionals.
- Perceive the process as inconsistent throughout the school.

And they are less likely to:

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- Use the common language in the FFT to discuss teaching practices with colleagues.
- Find the observation process helps them to be reflective.
- Find the FFT rubric easy to understand.
- Use feedback to improve their performance.
- Improve their performance based on discussions with their administrator.
- Believe their administrator understands the FFT.
- Change their instructional methods as a result of the process.
- See an improvement in student engagement based on using the FFT.
- Find the FFT process to be valuable.

The considerable difference found in this school as compared to other schools in the district is concerning. In spite of administrative training and certification in the FFT process, as well as ongoing communication and support at the district level, there exists noteworthy variation in this one case. This finding emphasizes the importance of consistency and fidelity of implementation at the district level to ensure inter-rater reliability. The administrators must participate in ongoing training and professional development that is done collaboratively to minimize differences between evaluators. One of the administrators suggested that regular, collaborative discussions take place, identifying characteristics for each proficiency level. This idea is supported by Danielson (2007), who emphasizes that the purpose of ongoing training is not to eliminate bias or personal preference, but to recognize it and minimize its effect. The MET project (2013) had similar findings, stating, "the accuracy of observations requires rigorous training" (p. 6). The study found an association that was statistically significant between teacher evaluation ratings and the subject taught by teachers. The frequency of non-classroom teachers (counselors, special education teachers, interventionists, and social workers) rated "highly effective" was more than expected when comparing non-classroom teachers with classroom teachers, and vice-versa. There was also a difference found between core and non-core teachers. Those teachers who did not teach a core class, but instead teach an elective, are more likely to be rated highly effective than teachers of mathematics, English, social studies or science. This could be due to a number of reasons, including the difference between traditional classroom settings versus the student-centered, group settings that are more commonly found in elective courses.

The final statistically significant association identified in the one-way repeated measures ANOVA was found when comparing teacher evaluation ratings and the level of school the teacher was in – elementary or secondary. There was a higher than expected frequency of "highly effective" teachers at the elementary level than at the secondary level. As with the difference between the structure of elective and core classes, this, too, could be a result of the difference in classroom structure, lessons and activities that are inherent in an elementary setting as opposed to those at the secondary level. Both elementary and elective classrooms tend to be more constructivist in nature than a typical secondary classroom. Research has shown that constructivist instructional strategies have a positive impact on student achievement in secondary mathematics classrooms and in other classes of core subjects (Marzano and Waters, 2009, Cobb aned Bowers 1999, Hiebert & Grouws, 2007, Hill et al. 2007). Even though it is less common to find these

strategies used in secondary classrooms, making a transition to include them is supported by research.

The FFT is grounded in constructivism, stemming from the work of Dewey, Piaget and Vygotsky, and is acknowledged as "providing the most powerful framework for understanding how children (and adults) learn" (Danielson, 2013, p. 15). Inherent in the proficient and distinguished levels of the FFT are constructivist attributes, including active involvement by students, cognitive engagement in exploring and learning concepts, and activities and discussions initiated and modified by students to enhance their learning. In such classrooms, evidence of student voice and choice with groupings that are flexible, fluid and intentional is apparent. This is in contrast to a more traditional view of learning that is focused on knowledge and procedures. (Danielson, 2013). The focus of teaching is no longer the delivery of a presentation (albeit sometimes this is necessary) and assigning questions, rather it "focuses on designing activities and assignments – many of them framed as problem solving – that engage students in constructing important knowledge" (Danielson, 2013, p. 17). Teachers using a more traditional approach will most often fall into the "basic" category using the FFT rubric. The one-way repeated measures ANOVA test produced outliers in eight cases. These cases were examined individually by analyzing demographic variables to determine factors that contribute to unusual results. A copy of the teachers' end-of-the-year written abstract was examined in an effort to learn more about each of these cases. Of the eight outliers, ratings went down in five instances, stayed the same (at the highest level) in one instance and went up over time in two cases.

The outlier analysis found that in seven of the eight cases (87.5%) there was a

change in teachers' building, administrator and/or grade level, and most often resulting in a lower rating. This underscores the notion that teacher ratings increase when they have consistency in their job and surroundings. This makes sense, as a change in building or grade level results in a learning curve for teachers. Any teacher will agree that their profession is a craft, carefully developed with instructional practices improving over time.

# Limitations to the FFT

Two limitations to the FFT tool emerged from the data and inform question 1d. The first limitation is that the four categories do not provide enough variation to adequately separate levels of proficiency. This is illustrated by the fact that 97% of teachers fell within the "proficient" and "distinguished" categories in year 4 of the study (year 1 was 98%, year 2 was 94% and year 3 was 98%) and less than 1% were rated ineffective in all four years of the study. There is a broad range of ability demonstrated by teachers within the "proficient" category, resulting in teachers with vast difference in ability who are receiving the same rating. Teachers and administrators have identified this as a limitation of the FFT, and it is the cause of frustration for a number of teachers. It also contributes to the perception of teachers that the FFT is subjective, particularly in the upper two levels of the rubric. In fact, the top level is viewed by many as unattainable and unrealistic, as noted in the following comments from teachers: "A highly effective classroom just has "magic,"" "It's meant to be an ideal rather than a goal," "One only "visits" highly effective," and "It seems impossible to attain, and creates resentment because teachers are working very hard."

Interestingly, under the revised evaluation system, the number of teachers falling into the "satisfactory" category is essentially the same as was reported in *The Widget Effect*, a study that served as a major catalyst for change in teacher evaluation systems. *The Widget Effect* found 94% of teachers were rated in the top two categories of effectiveness when districts used more than two rating categories (i.e. satisfactory and unsatisfactory), and less than 1% were rated unsatisfactory (Weisberg, Sexton, Mulhorn, and Keeling, 2009). Districts throughout Michigan show similar results, with 97.3% of teachers rated "effective" or "highly effective" in the 2013-2014 school year and 97.1% in 2012-2014 (Michigan Department of Education, 2016).

The second limitation pertains to the State of Michigan's labeling convention as compared to the proficiency levels of the FFT. As discussed above, the negative connotations inherent in the state's labels are concerning and likely have an influence on how administrators throughout the state rate their "basic" teachers. To confound matters, the authors of the FFT and the Michigan State legislators view the ratings themselves differently. The FFT uses the labels ineffective, basic, proficient and distinguished, drawing a line of acceptable and unacceptable between ineffective and basic. According to the FFT, it is normal for novice teachers to fall into the "basic" category, whereas the State of Michigan draws the line so that the third level, basic, falls into an "unacceptable" category.

The State of Michigan lawmakers, using the rating labels of ineffective, minimally effective, effective and highly effective, have placed consequences upon teachers who receive a "minimally effective" or "ineffective" rating. Novice teachers may not be issued their initial professional certificate (normally issued after five years of classroom teaching) unless the individual was rated "effective or highly effective on his or her three most recent evaluations. This puts the onus on administrators who must decide if an honest evaluation is worth the loss of a potentially great teacher, who is performing at the basic level (as they often are in their first years of teaching). Any teacher who receives a rating of "ineffective" must improve their rating by the third year, or the district must inform parents that their child will be taught by a teacher who was rated "ineffective" during their third year (Legislative Council, 2011), assuming, of course, that the district continues to employ the teacher.

### **Research Question #2 – Key Findings**

The second research question, "What interactions around the FFT between evaluator and teacher contribute to teacher performance?" is addressed through the data found in the teacher and administrator surveys. The two surveys that were used in the study collected information pertaining to the evaluation process, its implementation and various elements contained therein, such as the specific type of feedback and other interactions and conditions that may contribute to teacher improvement. The surveys were analyzed both quantitatively and qualitatively to identify and understand the specific interactions that foster positive results in teacher performance.

The survey was designed to elicit details about the types of interactions that teachers and administrators participate in during the evaluation process that contribute to teacher performance. Question 2a asks what those interactions are, and whether some interactions are more helpful than others. This question was informed by survey questions RI4, OV6, OP7, OV8, OI9, and OI13, and many teacher and administrator comments addressed them as well. Additionally, questions OI10, OV11, and OV12 ask

about the post-observation conversations that take place, and all show negative results from teachers. They are: I regularly have written conversations following an observation (29%), I regularly have oral conversations following an observation (44%) and I find these conversations to help me improve my performance (47%). Teachers positively identified the following interactions as contributing to teacher performance: use of a common language provided by the FFT (57%), the observation process (61%) contributing to personal reflection, and feedback following an observation (50% rated this positively, 24% were neutral, and 26% rated it negatively). Discussions with administrators contributing to improved performance did not rate positively, however, with only 47% of teachers giving it a high rating.

The observation process is an integral part of Bentley School District's evaluation process. Teachers are observed multiple times throughout the year, and observations are unannounced and last between 16-20 minutes. Administrators give immediate written feedback to teachers and ideally it is followed up with a discussion, either written or in person. The survey results show that while 50% of teachers find this helpful, 55% find the feedback clearly connected to the FFT. Only 43%, however, believe the feedback accurately describes their performance and 47% find the discussion with their administrator helpful.

Bentley School District administrators, like many administrators throughout the state, have participated in many hours of professional development on working with teachers to improve performance, participate in coaching conversations, use effective feedback techniques and have difficult conversations. Most administrators view themselves as instructional leaders and strive to support teachers in their development. A conflict arises when an instructional coach is also responsible for evaluation, and this is supported by the responses to the above survey questions as well as teachers' responses to the survey questions, such as: "I do not find the use of the coaching conversations helpful," "the observation is just a glimpse into what I do," "coaching conversations are very vague," and "I would like to see better and more individualized feedback." Administrators concur with the shortcomings of the coaching model, stating, "coaching teachers about what the FFT looks like and sounds like within their practice needs development," and "when the administrator is the one that is doing the coaching, true coaching does not occur, as the teacher views the coaching as an evaluative process rather than a helpful process."

Coaching conversations between administrators and teachers is a paradigm shift and it will take time for development. The purpose of coaching, according to Bentley School District administrators, is to improve instructional strategies and help transform classrooms into high level learning environments, as detailed in the FFT. Cheliotes & Reilly (2010), define coaching as "a way of listening and speaking to colleagues that assumes a belief that others are whole and capable. Others don't need to be "fixed"" (p. 9). Although this concept is relatively new in the United States, Finland's educational structure includes a coaching model and Japan uses the idea of a lesson study, allowing teachers to collaboratively plan and observe and critique each other (Williams and Engel, 2012). It is what happens after classroom observations, during reflective conversations, which will result in an improvement in teaching practices.

The coaching conversations, coupled with the information gleaned from observations, are also used to inform professional development as administrators' gain

insight into teachers' areas of need. This supports Goe and Holdheide's contention that post-observation meetings ought to focus on instructional strategies, addressing the needs of the teacher (2013). Darling-Hammond (2013) reminds us that "evaluation alone will not improve practice," but we must "link both formal professional development and job-embedded learning opportunities to the evaluation system" (p. 99). Skilled administrators will use information gleaned from observations, coupled with details from coaching conversations to plan and provide meaningful professional development to teachers.

An additional criticism throughout the feedback on the survey pertains to the time-intensive and seemingly unmanageable observation-feedback process. Ideally. administrators meet with each teacher after a classroom observation for the coaching conversation, but this does not always happen. A number of administrators attempt to complete the feedback cycle via written communication, and even that presents a challenge. On one hand the administrators are pressed for time, and on the other hand teachers are asking for longer observations, as 16-20 minutes seems too short to adequately assess their performance. Both teachers and administrators made suggestions for improvement: "Would longer evaluations less often with more cultural visits be more effective?" "Increase the time in each classroom, rather than the amount of times in each classroom," "more time in the classroom by the evaluator would be helpful (and at different hours of the day)," "Once you are highly effective or effective, the number of observations should be reduced," "If we are to be evaluated as intended, then our principals need more help. They cannot run the school, deal with discipline, observe every teacher multiple times and follow up with individual meetings," and "It is better that administrators spend time with new and struggling teachers rather than seasoned teachers."

Teacher evaluation ratings may not have changed since the publication of The Widget Effect (2009), but the time administrators spend on the evaluation process has increased substantially. Bentley School District Administrators report spending 16-20 minutes on each observation, and they observe every teacher multiple times per year (ranging from 2-6 per teacher per year, in most cases). In addition, they are tasked with having coaching conversations following each observation, having pre-, post- and sometimes mid-year meetings with teachers, and spending additional time organizing and writing evaluations. The Widget Effect reports, "school administrators spend very little time on what is a largely meaningless and inconsequential evaluation process. Most teacher evaluations are based on two or fewer classroom observations totaling 76 minutes or less" (p. 6). Sartain et al. (2011) found similar results in his study, with some administrators claiming the new evaluation systems were too labor intensive. Some districts have successfully "resolved the tension between the need for high-quality evaluation and principal time [by] including assistant principals, department chairs, and master or mentor teachers in the evaluation process" (Darling-Hammond, p. 134).

The next research question, 2b, investigates whether or not teachers and administrators have a clear understanding of the FFT, and if they find value in it. The survey questions designed to answer these questions received the highest ratings in the teacher survey, save one. They are listed below:

• RV1 I clearly understand the purpose of using the FFT to evaluate my work (69%)

- RP2 The rubrics in the FFT are easily understood (64%)
- RV3 The rubrics are consistent with my beliefs about what constitutes effective teaching (59%)
- RV5 The FFT is insignificant to me as a professional (24%)
- TE3P The processes and procedures used for my evaluation are fair (44%)
- EP16 My evaluator(s) understands the FFT thoroughly (63%)
- TE5P My evaluation was conducted in a fair manner (61%)

These results indicate that many teachers do see value in the FFT and in the evaluation process that is in place. Administrators also rate the questions pertaining to this question high, and 100% indicate positive results on all related survey questions.

It is interesting to note that while 61% of teachers agree that their evaluation was conducted in a fair manner, only 44% found the processes and procedures to be fair. The teacher comments help us to understand this result more fully, as they indicate a belief in the ability of their administrator to conduct the evaluation, but question the process and procedures that are inherent in the structure.

Question 2c explores whether or not teacher and administrator groups have similar beliefs/views regarding the evaluation process. Statistically significant associations were found between the teacher and administrator surveys on seven questions (Table 19), indicating significant differences in their beliefs/views. For cases where the question varies between the two surveys, the second question, in parenthesis, indicates the question on the administrator survey. When these questions were sorted by type and theme, the following distributions are found:

• Sorted by type: Rubric (28%); Observation (28%); Evaluation (42%)

• Sorted by theme: Value (71%); Impact (14%); Process (14%)

Five of the seven questions fall in the theme of "value," indicating a discrepancy between how useful teachers and administrators perceive the FFT and evaluation process to be. In all seven cases teachers rated the survey questions less favorably than administrators. This suggests that teachers do not place as much value on the evaluation instrument that is used, the observation process that is in place and the FFT's practical use, as do the administrators.

Table 19

Statistically Significant Associations between Teacher and Administrator S	burveys	
		Theme:
	Type:	Value
	Rubric (R);	(V);
	Observation	Impact
	(O);	(I);
	Evaluation	Process
Question	(E)	(P)
Questions with statistically significant associations between teacher and	administrator	surveys:
RVI: I clearly understand the purpose of using the FFT to evaluate my		
work (I clearly understand the purpose of using the FFT for	R	V
evaluative purposes)		
RV5: The FFT process is insignificant to me as a professional	R	V
OV8: The qualitative feedback accurately describes my performance		
(The qualitative feedback accurately describes teacher	0	V
performance)		
OI13: The discussions I have with my evaluator(s) help me to improve		
my performance (The FFT process has encouraged me to discuss	Ο	Ι
effective teaching practices with teachers)		
EP15: The evaluation process is implemented consistently throughout my	Е	Р
school	$\mathbf{L}$	Г
EV20: In general, the FFT process is valuable to me as a professional	Е	V
(In general, the evaluation process is valuable to our district)	E	v
EV21: My evaluation score accurately describes my performance (The	Е	V
evaluations I write accurately describe teacher performance)	E	v

Statistically Significant Associations between Teacher and Administrator Surveys

# Summary of the findings

Teacher evaluation ratings improved over time, and especially over the course of four years as opposed to year-to-year changes. This supports the notion that the consistency to which districts maintain an evaluation tool is important for long-term improvement in instruction and ultimately teacher performance. Both teachers and administrators have seen shifts in classroom instructional practices since implementing the evaluation cycle that includes classroom observations and coaching conversations that are connected to the FFT. Continued time and consistency with the process may help to improve teachers' trust and perception of the evaluation system.

Higher ratings were found among teachers who were experienced or veteran teachers, and the greatest growth was found in the group of teachers who are in their first four years of teaching. Improvement in experienced and veteran teachers is not found to the same extent. This emphasizes how important it is that districts spend time to develop their novice teachers. Investment in new teachers is worthwhile and administrators will typically witness a great deal of growth during this time.

This study found no difference in teacher evaluation ratings as compared to the study done by Weisberg et al., that resulted in publication of *The Widget Effect* (2009). The same is true when looking at statewide evaluation ratings since 2011. Fewer teachers than expected are observed in the "minimally effective" category. FFT level of "basic" is state of Michigan level of "minimally effective". Lawmakers should change the label to correspond with the FFT, as the negative connotation associated with their current label impacts teachers' perceptions and may influence the reliability of administrators' ratings, because they want to support their developing teachers. This

single change will not only strengthen the alignment with the FFT, but will help teachers accept the process and strive for improvement. Administrators are more apt to give teachers a basic score than minimally effective, thus helping maintain a higher level of inter-rater reliability.

An additional recommended change pertaining to the rubric is to include an additional proficiency level, as the current four levels do not provide enough variation. This will allow for more accurate feedback and more concise explanations, especially in the "proficient" category, which this study found to be too broad. The range of abilities that fall within the "proficient" category is extensive. Two teachers, both with the rating of "proficient," could have markedly different abilities. This change would also help address teachers concerns that movement from one level of the FFT to the next is difficult.

Teachers were split when asked if the FFT adequately informs them of their practice. The evaluation process, including classroom observations, and feedback or coaching conversations, is valued more by administrators than teachers, although slightly more than half of the teachers indicated they know and understand the expectations. Expectations and processes need to be clearly communicated continuously to all stakeholders. The shift in the evaluation process is substantial, and impacts teaching at all levels. It is vital that districts clearly communicate the rationale and the process, and revisit it regularly. The purpose of the evaluations, as it relates to students, needs to be articulated often. Dialogue between administrators and teachers will help both groups understand the common goal as it relates to student learning.

Teachers of core subjects and secondary-level teachers tend to score lower using the FFT than other teachers. It is recommended that districts provide continuous professional development and learning opportunities for those teachers regarding constructivist, child-centered environments, implementing best practices. Current research supports the inclusion of such strategies, and identifies them as having a positive impact on student learning. Teachers of a more traditional "stand and deliver" method will fall in the "basic" category of the FFT based on the rubric, translating to the "minimally effective" label for the State of Michigan.

A discrepancy between buildings was found, indicating the need for continuous, ongoing administrative training and professional development on the FFT and the evaluation process. This is vital to ensure that differences between buildings are minimized. If, in fact, the labeling convention described above does influence decisions, it ought to be addressed by district leaders in order to establish consistency among raters. Maintaining inter-rater reliability requires continual collaboration and ongoing training for all administrators. Another recommendation is that two observers are used at the elementary school. This could be accomplished by having district administrators observe teachers in buildings other than their own.

Interactions surrounding the FFT that contribute to teacher performance include using a common language connected to the FFT, maintaining clear and continuous communication, performing classroom observations and informing professional development. The first includes using a common language that is found in the FFT. This will be strengthened as time goes on, by maintaining consistency with a single tool. Teachers also report that the observational process allows them to personally reflect on their practice, and they value the feedback following the observations. Ongoing professional development, connected to the classroom observations and coaching conversations, will strengthen teachers' understanding of the FFT and their skillfulness in their practice.

#### Limitations to the Study

The evaluation process in Michigan produced a paradigm shift in how educators, both administrators and teachers, viewed and interacted with the new system. Such profound changes take time to adjust to, and there is a natural learning curve that comes with any new process. Future studies many help address some of the limitations listed below:

- Year one of the study was the first year for teachers and administrators, all of whom had little previous experience with the FFT.
- Differences in administrators' ability and background knowledge with the FFT could effect teachers' attitudes and experiences with the process.
- Teachers may connect the FFT to the evaluation process, making it difficult to determine if their disdain is toward the new evaluation process or the FFT itself.

### **Recommendations for Future Studies**

Future studies can expand upon this study, and add to the school of knowledge surrounding the teacher evaluation process. In addition to some of the limitations of the current research listed above, other such studies include:

• A longitudinal study should be done on models other than the FFT that can be compared with this study to help answer the question of whether or not it is

solely the tool (FFT) responsible for the statistically significant change, or if other tools are equally sound.

- The study could be expanded to include multiple districts.
- The FFT was developed with a constructivist foundation (essentially measuring the amount of "constructivism"), and this study shows teachers' ratings are higher in elementary and elective classrooms. To what extent is this due to an increased use of constructivist techniques and strategies in those classrooms?

#### **Recommendations at the District and State Levels:**

This study uncovered some critical aspects of the evaluation process that will help to ensure that school districts create and implement teacher evaluation systems that are fair and manageable. In doing so, a well-designed system will not only allow school districts to meet the expectations of the law, but could ultimately have a positive impact on student learning.

- It will be important, moving forward, that the expectations and process be clarified and continually communicated to stakeholders.
- It is important to commit to the process for multiple years, understanding that the greatest growth will be seen over time.
- Investment in new teachers is worthwhile and important, as the greatest growth occurs during the first four years of teaching.
- Districts should provide professional development and learning opportunities for teachers regarding constructivist, child-centered learning environments, implementing best practices. This is a particular need of secondary and core teachers

- Continuous, ongoing administrative training and professional development on the FFT and the evaluation process are needed to ensure that rating differences between buildings are minimized.
- Two observers should be used in the elementary school to help maintain interrater reliability.
- Districts need to clearly communicate the rationale, expectations, process, and purpose of the evaluations, as it relates to students, on an ongoing basis to teachers.
- Gradations to the "proficient" category will allow for more variation, as this study found the range of abilities that fall within this category to be extensive.
- Information should be developed that will help inform teachers of specific steps that are needed to move from one category to the next.

#### Conclusion

This study took an in-depth look at the FFT model used by the Bentley School District for use in evaluating teachers in compliance with the state requirements. Teacher performance did improve with long-term use of the FFT, showing that sustained use of the tool can result in instructional improvements. Greater growth, however, would likely be seen if the evaluation process were decoupled from the FFT. The FFT provides clear indicators of effectiveness in numerous areas, but many teachers view the process as punitive and do not see it as useful to their practice and personal growth, minimizing the impact the process could have on their teaching. The complexity of the FFT and the evaluation process in general are cumbersome for administrators and place pressure on teachers.

Evaluation systems are now being developed throughout the state that comply with the law, and the findings herein reveal critical elements of the process that will help unite teachers and administrators in the process, and increase teacher motivation and participation. These elements include clearly articulated goals, ongoing and open communication about the process, professional development, and coaching. If done well, this can translate into improved teacher performance, and will ultimately increase student learning.

State law in Michigan and throughout the country now requires district administrators to perform multiple observations and evaluate teachers annually. Initiatives that impact schools will have the greatest impact on education if they support instructional practices that lead to student learning. The FFT can accomplish this, and the Bentley School District places value in the opportunity to work with teachers to create positive, student-centered classrooms in which students can thrive. This goal does not yet translate to the teachers, however, and they tend to view the process as being much less valuable and at times subjective. In spite of the differences in views held by these two groups, teacher and administrator surveys both identified coaching, communication, and professional development as valuable interactions that support improvement.

Long-term use of an evaluation tool is vital for districts to show substantial results. Continuous communication between administrators and teachers helps teachers to feel supported as opposed to scrutinized. Teacher professional development surrounding practices and strategies contained in the FFT will align classrooms more closely to a child-centered, constructivist model. Districts and administrators must continually work to ensure they achieve inter-rater reliability through ongoing training

and professional development. Policy-makers need to allow time for districts, schools and teachers to catch up to the requirements, and they, too, need to allow for long-term use of evaluation tools before mandating further changes. Above all, we all must remember that teaching is an art; a carefully developed and complex craft that is designed to fit every type of student, each with his or her individual needs. A cursory glance can never capture the totality of a teacher's performance.

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sequence and alignment	Component 2c: Managing Classroom Procedures
	Management of instructional groups
	Management of transitions
Balance     Managem	Management of materials and supplies
Suitability for diverse learners     Performan	Performance of non-instructional duties
Supervisio	Supervision of volunteers and paraprofessionals
Component 1d: Demonstrating Knowledge of Resources Component 2	Component 2d: Managing Student Behavior
Resources for classroom use     Expectatio	Expectations
Resources to extend content knowledge and pedagogy     Monitoring	Monitoring of student behavior
Resources for students     Response	Response to student misbehavior
Component 1e: Designing Coherent Instruction Component 2	Component 2e: Organizing Physical Space
Learning activities     Safety and	Safety and accessibility
ials and resources	Arrangement of furniture and use of physical resources
<ul> <li>Instructional groups</li> </ul>	
<ul> <li>Lesson and unit structure</li> </ul>	
Component 11: Designing Student Assessments	
<ul> <li>Congruence with instructional outcomes</li> </ul>	
Criteria and standards	
<ul> <li>Design of formative assessments</li> </ul>	
Use for planning	

## APPENDIX A

Domains, Components and Elements of the Framework for Teaching

Domain 3: Instruction	Domain 4: Professional Responsibilities
Component 3a: Communicating with Students	Component 4a: Reflecting on Teaching
	Accuracy
<ul> <li>Directions and procedures</li> </ul>	<ul> <li>Use in future teaching</li> </ul>
<ul> <li>Explanation of content</li> </ul>	
<ul> <li>Use of oral and written language</li> </ul>	
Component 3b: Using Questioning and Discussion	Component 4b: Maintaining Accurate Records
Techniques	
Quality of questions	<ul> <li>Student completion of assignments</li> </ul>
<ul> <li>Discussion techniques</li> </ul>	<ul> <li>Student progress in learning</li> </ul>
<ul> <li>Student participation</li> </ul>	<ul> <li>Non-instructional records</li> </ul>
Component 3c: Engaging Students in Learning	Component 4c: Communicating with Families
<ul> <li>Activities and assignments</li> </ul>	<ul> <li>Information about the instructional program</li> </ul>
<ul> <li>Grouping of students</li> </ul>	<ul> <li>Information about individual students</li> </ul>
<ul> <li>Instructional materials and resources</li> </ul>	<ul> <li>Engagement of families in the instructional program</li> </ul>
Structure and pacing	
Component 3d: Using Assessment in Instruction	Component 4d: Participating in a Professional Community
<ul> <li>Assessment criteria</li> </ul>	<ul> <li>Relationships with colleagues</li> </ul>
<ul> <li>Monitoring of student learning</li> </ul>	<ul> <li>Involvement in a culture of professional inquiry</li> </ul>
<ul> <li>Feedback to students</li> </ul>	<ul> <li>Service to the school</li> </ul>
<ul> <li>Student self-assessment and monitoring of progress</li> </ul>	<ul> <li>Participation in school and district projects</li> </ul>
Component 3e: Demonstrating Flexibility and	Component 4e: Growing and Developing Professionally
Responsiveness	
Lesson adjustment	<ul> <li>Enhancement of content knowledge and pedagogical skill</li> </ul>
<ul> <li>Response to students</li> </ul>	<ul> <li>Receptivity to feedback from colleagues</li> </ul>
Persistence	<ul> <li>Service to the profession</li> </ul>
	Component 4f: Showing Professionalism
	<ul> <li>Integrity and ethical content</li> </ul>
	<ul> <li>Service to students</li> </ul>
	Advocacy
	Decision making
	<ul> <li>Compliance with school and district regulations</li> </ul>
From: Charlotte Danie	From: Charlotte Danielson – Enhancing Professional Practice: A Framework for Teaching (2 <sup>nd</sup> edition)

# **APPENDIX A (continued)**

## **APPENDIX B**

# **Teacher Observation Reflection Form**

Name:	TEN	IPLATE		Gr	rade:	_		By:	Hofer
Date/Tim	e:				A	ctivity:			
# of Kid	s:	30	Learning Targe	et:					
Learning Target/Objective posted:				No	Less	on plans rev	viewed:	Yes No	
Check de	Check denotes Domain/Component(s) observed (see comments):								
2A: Environment of Respect/Rapport					3A: Co	mmunicating	w/Stude	nts	
2B: Establishing a Culture of Learning						estioning/Disc			
	-	g Classroom Pro				_			nts in Learning
		g Student Behav				_	sing Assessme		
2E: Or	ganizir	ng Physical Spac	e			3E: Fle	exibility and Re	esponsiv	eness
What is I	nappe	ening in the c	assroom?						

Planning & Preparation: Learning Target / I Can Statement

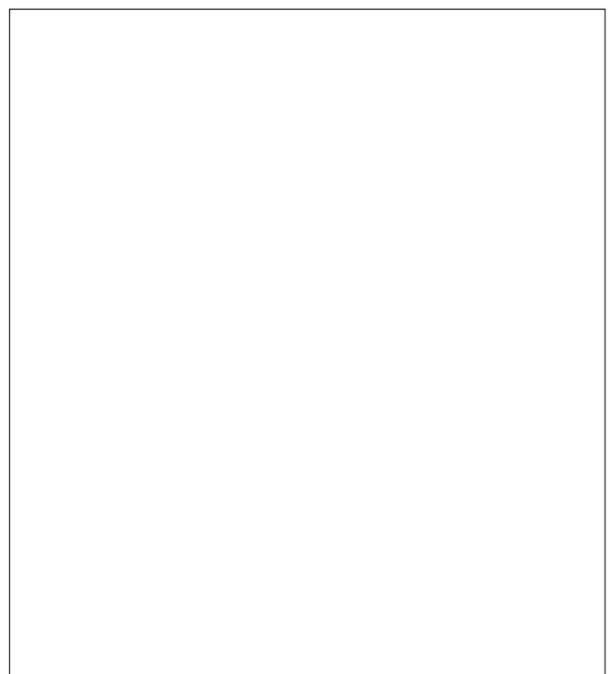
Classroom:

# **APPENDIX B (continued)**

# **Teacher Observation Reflection Form (p. 2)**

Student Engagement:	Manipulatives	Computer Lab	Student Movement	Lecture
	Small group	Independent	Discussion	Other

Comments/Points to Ponder:



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### **APPENDIX C**

#### Letter of Support

### Agreement between Investigator and District

The South Redford School District supports the study of Danielson's Framework for Teaching (hereafter FFT) conducted by Christine L. Hofer (investigator) for research purposes. It is understood that the study involves the use of teacher evaluation data from the school years 2011/2012 through 2014/2015. This data has been previously collected and was not collected specifically for the currently proposed research. The project will use this existing and coded private information and teachers and evaluators will be asked take an online, anonymous survey using Qualtrics.

The purpose of the study is to determine the effectiveness of using the FFT by evaluating the process established by the South Redford School District. This study is being conducted at the South Redford School District and Wayne State University. Data collected in the study will be used for research purposes. It is hereby agreed that the South Redford School District supports this research and will provide the site and location for the research to be conducted.

Christine L. Hofer, Investigator

Date

Brian Galdes, Superintendent

Date

#### **APPENDIX D**

Coded Private Information Agreement between Investigator and District

The Bentley School District (pseudonym) will provide coded information to Christine L. Hofer (investigator) for research purposes. The project is limited to the use of existing and coded private information. It is understood that the private information was not collected specifically for the currently proposed research. The investigator cannot readily ascertain the identity of the individuals to whom the coded private information pertains because this agreement prohibits the release of the key under any circumstances, until the individuals are deceased.

It is hereby agreed that the code used to de-identify private information will not be released to investigator Christine L. Hofer under any circumstances, until the individuals are deceased. The code used will replace identifying information (such as name or social security number) with a number, letter, symbol, or combination thereof. A key will be created to decipher the code. The code cannot be derived from or related to information about the individual.

Christine L. Hofer, Principal Investigator

Date

Kim Meray, Secretary to HR Director

Date

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# APPENDIX E Survey Questions for Teachers

Please complete this survey, which will help us better understand how teachers are evaluated using Danielson's Framework for Teaching (FFT).

This survey is voluntary and all responses will be kept confidential. Survey responses will be de-identified and will not be connected to individuals. The researcher, Christine L. Hofer, will use the data derived from your responses but will not be able to connect responses to individuals. Completion of the survey poses no risk to you, and there is no penalty for non-participation.

The South Redford School District has used Charlotte Danielson's Framework for Teaching (FFT) as part of their teacher evaluation process and the questions herein pertain to your experience with this tool.

Use the following definitions when considering the questions:

**Observation:** An evaluator observes a classroom for a period of time and provides written feedback to teachers. Feedback regarding classroom observations is based on the Framework for Teaching rubric.

**Evaluation:** The rating received at the end of a school year (Highly effective, effective, minimally effective, ineffective). The FFT constitutes the majority of weight in the final evaluation.

**Administrator:** The principal or assistant principal at a building. Administrators are evaluators.

**Evaluators:** The person who is performing the evaluation. This person many or may not be an administrator. Currently in South Redford all evaluators are administrators.

# **Survey Questions:**

NOTE: This survey will be conducted using Qualtrics, a web-based survey tool. Each question will have the appropriate response attributed to it, such as a text box, drop down menu or numeric scale.

## **Demographic Information:**

- 1. At what school do you teach?
- 2. What grade or subject do you teach?
- 3. How many years have you been teaching?
- 4. What is your gender? \_\_\_\_\_ Male \_\_\_\_\_ Female

## Framework for Teaching Rubrics

Please select the number that best reflects your agreement with each statement:

1 – Strongly Disagree 2 – Disagree 3 - Neither Agree nor Disagree 4 – Agree 5 – Strongly Agree

- 2. I clearly understand the purpose of using the Framework for Teaching (hereafter "FFT") to evaluate my work.
- 3. The rubrics in the FFT are easily understood.
- 4. The rubrics in the FFT are consistent with my beliefs about what constitutes effective teaching.
- 5. The FFT provides a common language for me to discuss teaching practices with colleagues.
- 6. I know what I need to do in order to achieve the top level of performance (distinguished) on the FFT.
- 7. I believe that it is possible for me to meet the top level of performance on the FFT.
- 8. The FFT process is insignificant to me as a professional.

## **Observation Process**

Please select the number that best reflects your agreement with each statement:

1 – Strongly Disagree 2 – Disagree 3 - Neither Agree nor Disagree 4 – Agree 5 – Strongly Agree

9. The observation process helps me to be reflective in my practice.

- 10. The qualitative feedback I receive as part of the evaluation process is clearly related to the FFT rubric.
- 11. The qualitative feedback accurately describes my performance.
- 12. The qualitative feedback helps me to improve my performance.
- 13. The observation is long enough in duration for my evaluator to get an accurate depiction of my performance.
- 14. I regularly have written conversations with my evaluator(s) following an observation.
- 15. I regularly have oral conversations with my evaluator(s) following an observation.
- 16. The discussions I have with my evaluator(s) help me to improve my performance.

## **Evaluation Process**

Please select the number that best reflects your agreement with each statement:

1 – Strongly Disagree 2 – Disagree 3 - Neither Agree nor Disagree 4 – Agree 5 – Strongly Agree

- 17. I know what is expected in order for me to do well using the current evaluation process.
- 18. The evaluation process is implemented consistently throughout my school.

- 20. My evaluation was conducted in a fair manner.
- 21. My evaluator(s) understand the FFT thoroughly.
- 22. My evaluator(s) spends adequate time observing my instruction in order to form a basis to assess my performance using the FFT.
- 23. I have changed my instructional methods as a result of using the FFT as part of the evaluation process.
- 24. The achievement of my students has improved as a result of using the FFT process.
- 25. The engagement of my students has improved as a result of using the FFT process.
- 26. In general, the FFT process is valuable to me as a professional.

## Summary

- 27. My evaluation for the 2014/2015 school year was: [ineffective, minimally effective, effective, highly effective]
- 28. If you received ineffective, minimally effective, or effective for the 2014/2015 school year, what is necessary for you to advance to the next level?
- 29. My evaluation score accurately describes my performance [true; false]
- 30. Comments (optional):

Thank you for completing this survey!

### **APPENDIX F**

# Survey Questions for Evaluators

Please complete this survey, which will help us better understand how teachers are evaluated using Danielson's Framework for Teaching (FFT).

This survey is voluntary and all responses will be kept confidential. Survey responses will be de-identified and will not be connected to individuals. The researcher, Christine L. Hofer, will use the data derived from your responses but will not be able to connect responses to individuals. Completion of the survey poses no risk to you, and there is no penalty for non-participation.

The South Redford School District has used Charlotte Danielson's Framework for Teaching as part of their teacher evaluation process and the questions herein pertain to your experience with this tool.

Use the following definitions when considering the questions:

**Observation:** An evaluator observes a classroom for a period of time and provides written feedback to teachers. Feedback regarding classroom observations is based on the Framework for Teaching rubric.

**Evaluation:** The rating received at the end of a school year (Highly effective, effective, minimally effective, ineffective). The FFT constitutes the majority of weight in the final evaluation.

**Administrator:** The principal or assistant principal at a building. Administrators are evaluators.

**Evaluators:** The person who is performing the evaluation. This person many or may not be an administrator. Currently in South Redford all evaluators are administrators.

## **Survey Questions:**

NOTE: This survey will be conducted using Qualtrics, a web-based survey tool. Each question will have the appropriate response attributed to it, such as a text box, drop down menu or numeric scale.

### **Demographic Information:**

- 1. At what school do you work?
- 2. How many years have you been an evaluator using the current model?
- 3. What is your gender? \_\_\_\_\_ Male \_\_\_\_\_ Female

### Framework for Teaching Rubrics

Please select the number that best reflects your agreement with each statement:

1 – Strongly Disagree 2 – Disagree 3 - Neither Agree nor Disagree 4 – Agree 5 – Strongly Agree

- 4. I clearly understand the purpose of using the Framework for Teaching (hereafter "FFT") to evaluate my work.
- 5. The rubrics in the FFT are easily understood.
- 6. The rubrics in the FFT are consistent with my beliefs about what constitutes effective teaching.
- 7. The FFT provides a common language for me to discuss teaching practices with teachers.
- 8. The FFT process is insignificant to me as a professional.

## **Observation Process**

Please select the number that best reflects your agreement with each statement:

1 – Strongly Disagree 2 – Disagree 3 - Neither Agree nor Disagree 4 – Agree 5 – Strongly Agree

- 9. The observation process helps teachers to be reflective in their practice.
- 10. I clearly relate my qualitative feedback to the FFT rubric.
- 11. The qualitative feedback accurately describes teacher performance.
- 12. The qualitative feedback helps teachers to improve their performance.
- 13. The observation is long enough in duration for me to get an accurate depiction of my performance.
- 14. I regularly have conversations with teachers following an observation.
- 15. The FFT process has encouraged me to discuss effective teaching practices with teachers.

## **Evaluation Process**

Please select the number that best reflects your agreement with each statement:

1 – Strongly Disagree 2 – Disagree 3 - Neither Agree nor Disagree 4 – Agree 5 – Strongly Agree

- 16. It is possible for teachers to meet the top level of performance (distinguished).
- 17. The evaluation process is implemented consistently throughout my school.
- 18. The evaluation process is implemented consistently throughout the district.
- 19. I understand the FFT thoroughly.
- 20. I spend adequate time observing teachers in order to form a basis to assess their performance using the FFT.
- 21. I have observed teachers changing instructional methods as a result of using the FFT as part of the evaluation process.
- 22. The engagement of students has improved as a result of using the FFT process.
- 23. The evaluation process could be improved.
- 24. In general, the evaluation process is valuable to our district.

## Summary

- 25. If a teacher receives ineffective, minimally effective, or effective for their evaluation, what is typically necessary for them to advance to the next level?
- 26. The evaluations I write accurately describe teacher performance
- 27. Comments (optional):

Thank you for completing this survey!

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### ABSTRACT

### THE IMPACT OF CLASSROOM OBSERVATIONS AND COLLABORATIVE FEEDBACK ON EVALUATION OF TEACHER PERFORMANCE, BASED ON THE DANIELSON *FRAMEWORK FOR TEACHING*

by

### **CHRISTINE L. HOFER**

### December 2016

Advisor: Dr. Thomas Edwards

Major: Education

**Degree:** Doctor of Philosophy

Teacher evaluation systems in Michigan are undergoing major reforms driven by recent legislation at both the federal and state levels. Multiple teacher observations, as well as student achievement data, are now required to be a major indicator of teacher effectiveness for evaluative purposes. The reformed system is high-stakes, as employment decisions such as layoffs and termination rest squarely on evaluation results. Implementation has been fast, and school districts throughout the state are working to understand the new requirements, and to implement them fairly and with fidelity. Many districts are utilizing Charlotte Danielson's Framework for Teaching (2007) as a rubric to measure teacher quality against components of effective teaching. This study begins by contrasting the ideals and beliefs behind the push for teacher accountability to the viewpoints of educational leaders and current research on best practices in education. Analysis of a school district that has implemented Danielson's Framework for Teaching for four years will be will be used to determine the impact it has had on teacher performance. A vital component of the process involves feedback conversations. The

elements of collaboration that are linked to improvement in teacher performance are examined, and some of the barriers to implementing a successful system are identified.

Keywords: evaluation, teacher, Michigan, union, reform, education, best practices,

effective teaching, coaching, classroom observations, Framework for Teaching

## AUTOBIOGRAPHICAL STATEMENT

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### **EDUCATION**

2000	Bachelor of Science, University of Michigan, Dearborn, Michigan
2002	Master's Degree in Instructional Technology, Wayne State University,
	Detroit, Michigan
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### **PROFESSIONAL POSITIONS**

2000 - 2011	Teacher of Mathematics, South Redford School District
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