



**MARZANO** Research Laboratory

# The **Marzano** Teacher Evaluation Model

August **2011**

*The four domains of the  
Marzano Teacher Evaluation Model*

Classroom Strategies  
and Behaviors

Preparing and Planning

Reflecting on Teaching

Collegiality and  
Professionalism



## The Marzano Teacher Evaluation Model

The Marzano Teacher Evaluation Model is based on a number of previous, related works, including *What Works in Schools* (Marzano, 2003), *Classroom Instruction That Works* (Marzano, Pickering, & Pollock, 2001), *Classroom Management That Works* (Marzano, Marzano, & Pickering, 2003), *Classroom Assessment and Grading That Work* (Marzano, 2006), *The Art and Science of Teaching* (Marzano, 2007), and *Effective Supervision: Supporting the Art and Science of Teaching* (Marzano, Frontier, & Livingston, 2011). Each of these works was generated from a synthesis of the research and theory. Thus, the model can be considered an aggregation of the research on those elements that have traditionally been shown to correlate with student academic achievement. The model includes four domains:

**Domain 1:** Classroom Strategies and Behaviors

**Domain 2:** Preparing and Planning

**Domain 3:** Reflecting on Teaching

**Domain 4:** Collegiality and Professionalism

The four domains include 60 elements: 41 in Domain 1, 8 in Domain 2, 5 in Domain 3, and 6 in Domain 4. The specifics of each domain are outlined below. For a detailed discussion of these elements, see *Effective Supervision: Supporting the Art and Science of Teaching* (Marzano, Frontier, & Livingston, 2011).

## Elements of the Marzano Teacher Evaluation Model



### Domain 1: Classroom Strategies and Behaviors

#### Routine Segments

**Design Question #1:** What will I do to establish and communicate learning goals, track student progress, and celebrate success?

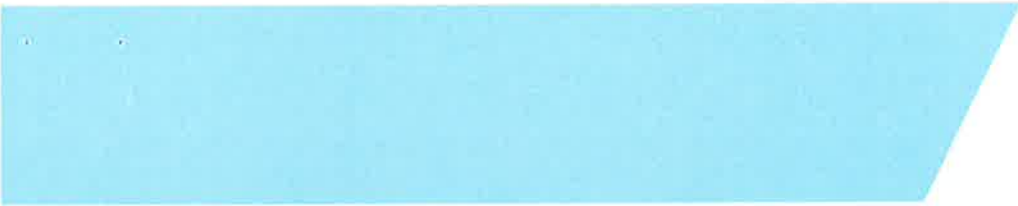

1. Providing clear learning goals and scales (rubrics)
2. Tracking student progress
3. Celebrating success

**Design Question #6:** What will I do to establish and maintain classroom rules and procedures?

4. Establishing classroom rules and procedures
5. Organizing the physical layout of the classroom

#### Content Segments

**Design Question #2:** What will I do to help students effectively interact with new knowledge?

- 
- 
1. Identifying critical information
  2. Organizing students to interact with new knowledge
  3. Previewing new content
  4. Chunking content into “digestible bites”
  5. Processing new information
  6. Elaborating on new information
  7. Recording and representing knowledge
  8. Reflecting on learning

**Design Question #3:** What will I do to help student practice and deepen their understanding of new knowledge?

9. Reviewing content
10. Organizing students to practice and deepen knowledge
11. Using homework
12. Examining similarities and differences
13. Examining errors in reasoning
14. Practicing skills, strategies, and processes
15. Revising knowledge



**Design Question #4:** What will I do to help students generate and test hypotheses about new knowledge?

16. Organizing students for cognitively complex tasks
17. Engaging students in cognitively complex tasks involving hypothesis generation and testing
18. Providing resources and guidance

Segments Enacted on the Spot

**Design Question #5:** What will I do to engage students?

1. Noticing when students are not engaged
2. Using academic games
3. Managing response rates
4. Using physical movement
5. Maintaining a lively pace
6. Demonstrating intensity and enthusiasm
7. Using friendly controversy
8. Providing opportunities for students to talk about themselves
9. Presenting unusual or intriguing information



**Design Question #7:** What will I do to recognize and acknowledge adherence or lack of adherence to rules and procedures?

10. Demonstrating “withitness”
11. Applying consequences for lack of adherence to rules and procedures
12. Acknowledging adherence to rules and procedures

**Design Question #8:** What will I do to establish and maintain effective relationships with students?

13. Understanding students’ interests and background
14. Using verbal and nonverbal behaviors that indicate affection for students
15. Displaying objectivity and control

**Design Question #9:** What will I do to communicate high expectations for all students?

16. Demonstrating value and respect for low-expectancy students
17. Asking questions of low-expectancy students
18. Probing incorrect answers with low-expectancy students



**Domain 2: Planning and Preparing**

Planning and Preparing for Lessons and Units

1. Planning and preparing for effective scaffolding of information within lessons
2. Planning and preparing for lessons within units that progress toward a deep understanding and transfer of content
3. Planning and preparing for appropriate attention to established content standards

Planning and Preparing for Use of Materials and Technology

1. Planning and preparing for the use of available traditional resources for upcoming units and lessons (e.g., manipulatives, videotapes)
2. Planning for the use of available technology such as interactive whiteboards, voting technologies, and one-to-one computer



## Planning and Preparing for Special Needs of Students

1. Planning and preparing for the needs of English learners
2. Planning and preparing for the needs of special education students
3. Planning and preparing for the needs of students who come from home environments that offer little support for schooling

## **Domain 3:** Reflecting on Teaching

### Evaluating Personal Performance

1. Identifying specific areas of pedagogical strength and weakness
2. Evaluating the effectiveness of individual lessons and units
3. Evaluating the effectiveness of specific pedagogical strategies and behaviors across different categories of students (i.e., different socioeconomic groups, different ethnic groups)

### Developing and Implementing a Professional Growth Plan

1. Developing a written growth and development plan
2. Monitoring progress relative to the professional growth plan

## **Domain 4:** Collegiality and Professionalism

### Promoting a Positive Environment



1. Promoting positive interactions about colleagues
2. Promoting positive interactions about students

### Promoting Exchange of Ideas and Strategies

1. Seeking mentorship for areas of need or interest
2. Mentoring other teachers and sharing ideas and strategies

### Promoting District and School Development

1. Adhering to district and school rules and procedures
2. Participating in district and school initiatives



As indicated above, Domain 1 contains 41 elements (5 + 18 + 18), Domain 2 contains 8 elements (3 + 2 + 3), Domain 3 contains 5 elements (3 + 2), and Domain 4 contains 6 elements (2 + 2 + 2). Given that 41 of the 60 elements in the model are from Domain 1, the clear emphasis is what occurs in the classroom—the strategies and behaviors teachers use to enhance student achievement. This emphasis differentiates it from some other teacher evaluation models.

Teacher status and growth can be assessed in each component of the model in a manner that is consistent with state guidelines and the requirements of Race to the Top legislation.

## The Research Behind the Model

Each of the works (cited above) from which the model was developed report substantial research on the elements they address. For example, *The Art and Science of Teaching* includes over 25 tables reporting the research on the various elements of Domain 1. These tables report the findings from meta-analytic studies and the average effect sizes computed in these studies. In all, over 5,000 studies (i.e., effect sizes) are covered in the tables representing research over the last five decades. The same can be said for the other titles listed above. Thus, one can say that the model was initially based on thousands of studies that span multiple decades and these studies were chronicled and catalogued in books that have been widely disseminated in the United States. Specifically, over 2 million copies of the books cited above have been purchased and disseminated to K–12 educators across the United States.

### Experimental/Control Studies

Perhaps one of the more unique aspects of the research on this model is that a growing number of experimental/control studies have been conducted by practicing teachers on the effectiveness of specific strategies in their classrooms (see Haystead & Marzano, 2010b). This is unusual in the sense that these studies are designed to establish a direct causal link between elements of the model and student achievement. Studies that use correlation analysis techniques (see next section) can establish a link between elements of a model and student achievement, but causality cannot be easily inferred. Other evaluation models currently used throughout the country appear to rely more heavily or exclusively on correlational data regarding the relationship between their elements and student achievement.

To date, over 300 experimental/control studies have been conducted. These studies involved over 14,000 students and 300 teachers across 38 schools in 14 districts. The average effect size for strategies addressed in the studies was .42, with some studies reporting effect sizes of 2.00 and higher. An average effect size of .42 is associated with a 16 percentile point gain in student achievement. Stated differently, on average when teachers use the classroom strategies and behaviors in the model, their typical student achievement increased



by 16 percentile points. However, even larger gains (e.g., those associated with effect sizes as high as 2.00) can be realized if specific strategies are used in specific ways.

### **Correlational Studies**

As mentioned above, correlational studies are the most common approach to examining the validity of an evaluation model. Such studies have been and continue to be conducted on various elements of the Marzano Teacher Evaluation Model. For example, such a study was conducted in the state of Oklahoma as a part of their examination of elements related to student achievement in K–12 schools (see *What Works in Oklahoma Schools: Phase I Report* and *What Works in Oklahoma School: Phase II Report* by Marzano Research Laboratory, 2010 and 2011, respectively). These studies involved 59 schools, 1,117 teachers, and over 13,000 K–12 students. Collectively, the reports indicate positive relationships with various elements of the Marzano Teacher Evaluation Model across the domains. Specific emphasis was placed on Domain 1, particularly in the Phase II report. Using state mathematics and reading test data, 96% of the 82 correlations (i.e., 41 correlations for mathematics and 41 for reading) were found to be positive, with some as high as .40 and greater. A .40 correlation translates to an effect size (i.e., standardized mean difference) of .87 which is associated with a 31 percentile point gain in student achievement. These studies also aggregated data across the nine design questions in Domain 1. All correlations were positive for this aggregated data. Seven of those correlations ranged from .33 to .40. These correlations translate into effect sizes of .70 and higher. Relatively large correlations such as these were also reported for the total number of Domain 1 strategies used by teachers in a school, implying a schoolwide effect for the use of the model. Specifically, the number of Domain 1 strategies teachers used in school had a .35 correlation with reading proficiency, and a .26 correlation with mathematics proficiency.

### **Technology Studies**

Another unique aspect of the research conducted on the model is that its effects have been examined in the context of technology. For example, a two-year study was conducted to determine (in part) the relationship between selected elements from Domain 1 and the effectiveness of interactive whiteboards in enhancing student achievement (see *Final Report: A Second Year Evaluation Study of Promethean ActivClassroom* by Haystead & Marzano, 2010a). In all, 131 experimental/control studies were conducted across various grade levels. Selected elements of Domain 1 were correlated with the effect sizes for use of the interactive whiteboards. All correlations for Domain 1 elements were positive, with some as high as .70. This implies that the effectiveness of interactive whiteboards as used in these 131 studies was greatly enhanced by the use of Domain 1 strategies.



## Summary

In summary, the Marzano Teacher Evaluation Model was designed using literally thousands of studies conducted over the past five or more decades, and published in books that have been widely used by K–12 educators. In addition, experimental/control studies have been conducted that establish more direct causal linkages with enhanced student achievement than can be made with other types of data analysis. Correlation studies (the more typical approach to examining the viability of a model) have also been conducted, indicating positive correlations between the elements of the model and student mathematics and reading achievement. Finally, the model has been studied as to its effects on the use of technology (i.e., interactive whiteboards), and found it to be highly correlated with the effectiveness of that technology.

## Use of the Model Across the Country

The model is being used in a variety of states, districts, and schools across the country. At a formal level, the states of New York, New Jersey, and Florida employ the model as a whole or in part as the basis for teacher evaluation. It is also being piloted or considered in a number of other states (e.g., Oklahoma and Missouri). Additionally, a growing number of districts across the country have adopted or adapted the model as the basis for teacher feedback and development (e.g., Cherry Creek Public Schools, Denver, Colorado; Adams School District 50, Westminster, Colorado; and Rockwall School District, Rockwall, Texas). Consultants for Marzano Research Laboratory use the model as the basis for teacher evaluation and feedback in all professional development conducted with individual schools. Thus, the model is also being used as the basis for professional development in a wide variety of schools across the country. Web-based tools for gathering, aggregating, and reporting data on teacher status and growth are available from Learning Science International.





## References

Haystead, M. W., & Marzano, R. J. (2010a) *Final report: A second year evaluation study of Promethean ActivClassroom*. Englewood, CO: Marzano Research Laboratory (marzanoresearch.com).

Haystead, M. W., & Marzano, R. J. (2010b). *Meta-analytic synthesis of studies conducted at Marzano Research Laboratory on instructional strategies*. Englewood, CO: Marzano Research Laboratory (marzanoresearch.com).

Marzano, R. J. (2003). *What works in schools*. Alexandria, VA: ASCD.

Marzano, R. J. (2006). *Classroom assessment and grading that work*. Alexandria, VA: ASCD.

Marzano, R. J. (2007). *The art and science of teaching*. Alexandria, VA: ASCD.

Marzano, R. J., Frontier, T., & Livingston, D. (2011). *Effective supervision: Supporting the art and science of teaching*. Alexandria VA: ASCD.

Marzano, R. J., Pickering, D. J., & Pollock, J. E. (2001). *Classroom instruction that works*. Alexandria, VA: ASCD.

Marzano, R. J., Marzano, J. S., & Pickering, D. J. (2003). *Classroom management that works*. Alexandria, VA: ASCD.

Marzano Research Laboratory. (2010) *What works in Oklahoma schools: Phase I report*. Englewood, CO: Marzano Research Laboratory (marzanoresearch.com).

Marzano Research Laboratory. (2011) *What works in Oklahoma schools: Phase II report*. Englewood, CO: Marzano Research Laboratory (marzanoresearch.com).