

A Shift in Teaching Practices: Implementing a Framework for Teaching



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Beginning of the Journey



Implementing a Strategic Framework: Five Key Elements to Shifting Teaching Practices

1. Capture the Urgency

What does mathematics teaching and learning look like in your schools?



2. Gather the Champions

Who will: Lead and sustain the work?

Inspire others?

Grow the movement?



3. Engineer the Solution

Develop the solution led by a vision, strategies and actions.



A Vision of Mathematics Education



...where students are confidently engaged in doing mathematics, problem solving, reasoning, critical thinking, collaboration and inquiry. This classroom will feature teachers who intentionally facilitate a community of students with rigorous and relevant tasks, building on student understanding and strategies to develop procedural and conceptual knowledge.

- *National Mathematics Strategy*

National Mathematics Strategy (The Structure)



1. Ensure common framework for teaching emphasizing problem solving

2. Ensure access to effective, proven interventions

3. Ensure opportunities for rigorous, relevant tasks

4. Establish standards for use of high quality texts and resources

5. Provide professional development for coaching, content and instruction

4. Take Action

Implement the plan and carry out key actions.



Phases of Implementation of NMS

Phase 1: Ensuring
framework and
tasks

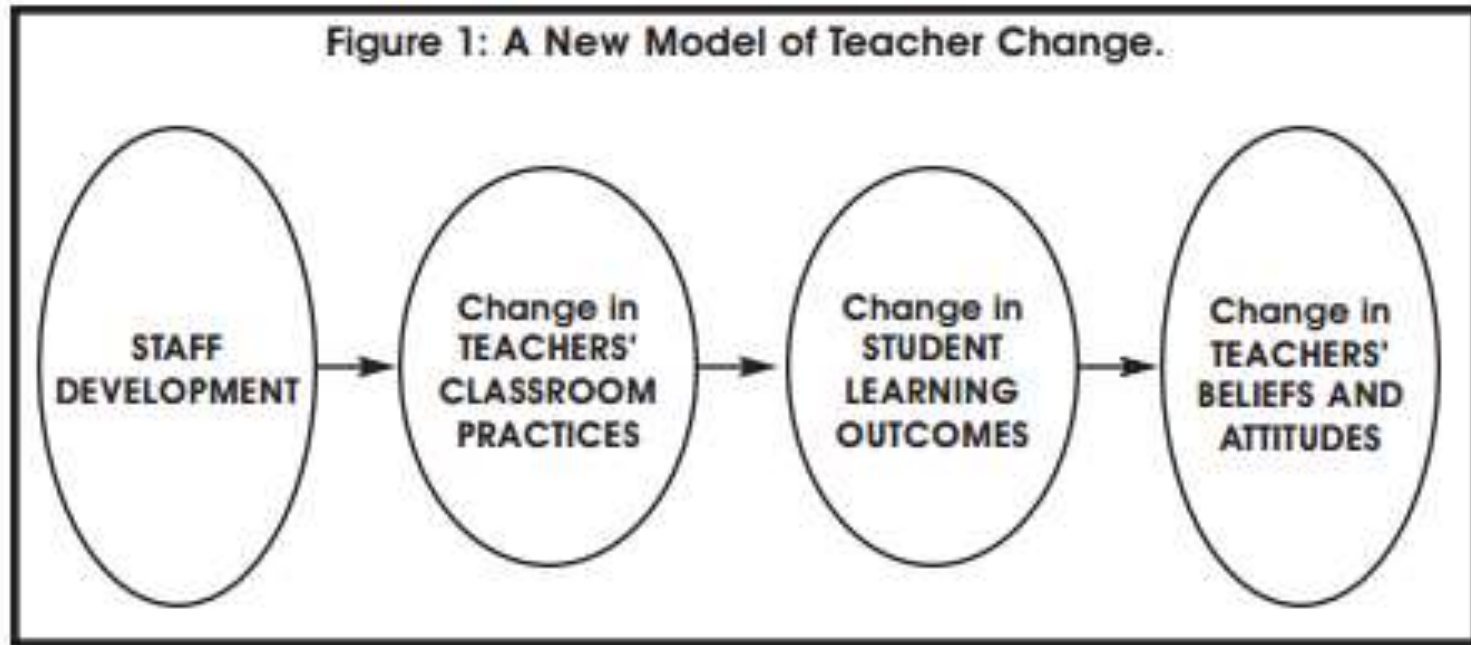
Strategies 1 & 3

Phase 2:
Implementing
Intervention

Strategy 2

Ongoing Professional Development (*Strategy 5*)
Ensuring high quality text and resources (*Strategy 4*)

How Teachers Change



“Teachers need to see changes in student learning outcomes before they are willing to change their attitudes and beliefs about teaching and learning and ultimately change their teaching practice.” (Guskey, 2002)

5. Tell the Story

Build the Movement

Keep Momentum

Spread the Word

What We Saw and Heard

Teaching providing high quality tasks

Students going beyond the right answer

Teachers asking deeper questions

Students collaborating and taking risks

...In Their Own Words

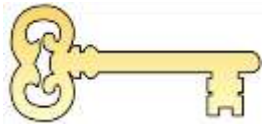
“Teaching concepts is taking more time, but I then spend less time reviewing and re-teaching.” – *teacher*

“I like that I get to share my own ideas.”
– *student*

“Teaching through problem solving allows me get a better understanding of what my students know and can do.” – *teacher*

“This is challenging because I really have to think.” – *student*

Strategic Framework for Shifting Teaching Practices



Five Key Elements

1. Capture the Urgency
2. Gather the Champions
3. Engineer the Solution
4. Take Action
5. Tell the Story

Want to learn more?
We would love to hear from you!



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