

# Exploring Expressions, Equations, and Statistics

October 27, 2019

Mississippi Association of Middle Level Education Conference  
Natchez Convention Center  
211 Main Street, Natchez, MS

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|-----------|--|-----------------|
| 4:00 p.m. | <b>Welcome, Introductions, and Objectives</b><br>The goals for this bridge event are to: <ul style="list-style-type: none"><li>▪ The importance of teaching mathematics in conceptual ways.</li><li>▪ How to teach students to evaluate and compare different strategies for solving problems.</li><li>▪ Modeling how to monitor and reflect on the problem-solving process to articulate reasoning behind strategy choice and identify which strategy presented the most efficient means of obtaining the solution.</li><li>▪ Resources supported by the What Works Clearinghouse and the National Council for the Teachers of Mathematics.</li></ul> | Dr. Tim Jacobbe |
| 4:05 p.m. | <b>Research in the Area of Algebraic Reasoning and Introduction to the Practice Guide on Problem Solving</b> <ul style="list-style-type: none"><li>▪ Overview of research evidence on Multiple Strategy Instruction and Problem Solving (Improving Mathematical Problem Solving).</li><li>▪ Practice multiple strategies in a way that will allow the comparison of the efficiency of solution strategies and the importance of students being able to articulate the reasoning behind their methods.</li></ul>  | Dr. Tim Jacobbe |
| 4:20 p.m. | <b>Examination of Recommendation 3 of the Algebra Practice Guide</b>   | Dr. Tim Jacobbe |

4:30 p.m.	<b>Simplifying Problems and Intentionally Choosing Strategies</b> <ul style="list-style-type: none"> <li>▪ Simplifying a problem in order to make it accessible to all students.</li> <li>▪ The importance of intentionally choosing strategies when solving problems.</li> <li>▪ Contrast “key word” approaches with problem-solving that highlights how students need to learn to reason through problems rather than memorize “key words” that will “expire” depending on the problem type.</li> </ul>	Dr. Tim Jacobbe
3:30 p.m.	<b>Questions and Wrap Up</b>	Dr. Tim Jacobbe
3:55 p.m.	<b>Stakeholder Feedback</b>	Kevin DiMatteo Event Coordinator Improving Mathematics Instruction Research Alliance <i>REL-SE</i>