



5 Practices for Orchestrating Productive Mathematics Discussions [NCTM]

Margaret Schwan Smith Mary Kay Stein

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Learn the 5 practices for facilitating effective inquiry-oriented classrooms

Anticipating what students will do--what strategies they will use--in solving a problem

Monitoring their work as they approach the problem in class

Selecting students whose strategies are worth discussing in class

Sequencing those students' presentations to maximize their potential to increase students' learning

Connecting the strategies and ideas in a way that helps students understand the mathematics learned

This book presents and discusses an framework for orchestrating mathematically productive discussions that are rooted in student thinking.

The 5 Practices framework identifies a set of instructional practices that will help teachers achieve high-demand learning objectives by using student work as the launching point for discussions in which important mathematical ideas are brought to the surface, contradictions are exposed, and understandings are developed or consolidated. By giving teachers a road map of things that they can do in advance and during whole-class discussions, these practices have the potential for helping teachers to more effectively orchestrate discussions that are responsive to both students and the discipline.

Includes a Professional Development Guide.

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