

## Problem solving for pre-service teachers

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Abstract: In the past three years, we have worked to enrich the approach used for the past 15 years in our pre-service courses for teachers, specifically on problem solving. In this talk, I will present some of the main features of this work, contrasting it to problem solving for mathematics majors - which is done in a separate course. Our work has been strongly influenced by the work of other speakers at the conference. We use extensively *Thinking mathematically*, and have worked to introduce *Random Grouping* and *Vertical Non Permanent Surfaces*. Other influences include *Visible Learning* and the general notion of *Mathematical Habits of Mind*.

### References

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