

Winter 2018 Teaching Skills Study Award (TSSA) Report

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Name and Date of conference attended: AMS-MAA Joint Mathematics Meetings
January 10-13, 2018

Teaching Skill(s) Studied:

Strategies that enhance teaching and learning mathematics.

Developing mathematical thinking and problem solving skills through puzzles, IBL, integrating research into the undergraduate classroom, and flipped classroom.

Innovative and effective ways to teach assorted math topics.

Making connection between math concepts using real life objects and applications of math.

Impact on Current Teaching (How was this info applied)?

I learned several new hands-on activities and structure and how they are applied in the presenters' class. I adapted the following to use in my classes, in particular:

1. In MATH 355 (Analysis and Proof)-Integrated research into this class, used IBL strategies learned.
2. To be used in Spring 19 MATH 212 (Calculus II)-I will be "flipping the Classroom". Based on what I learn at the conference, I've created course materials (including collecting suitable ready-to-use materials online), planned in-class activities, and designed assessment structure that I hope would work effectively for our student body.
3. In all classes: Use inquiry-based learning approach when appropriate.

I was also introduced to the following sites at the conference that may be useful for the readers of this report to enhance student learning:

- Perusal.com
- Edpuzzle.com
- Flippedlearning.org
- Bricklayer.org