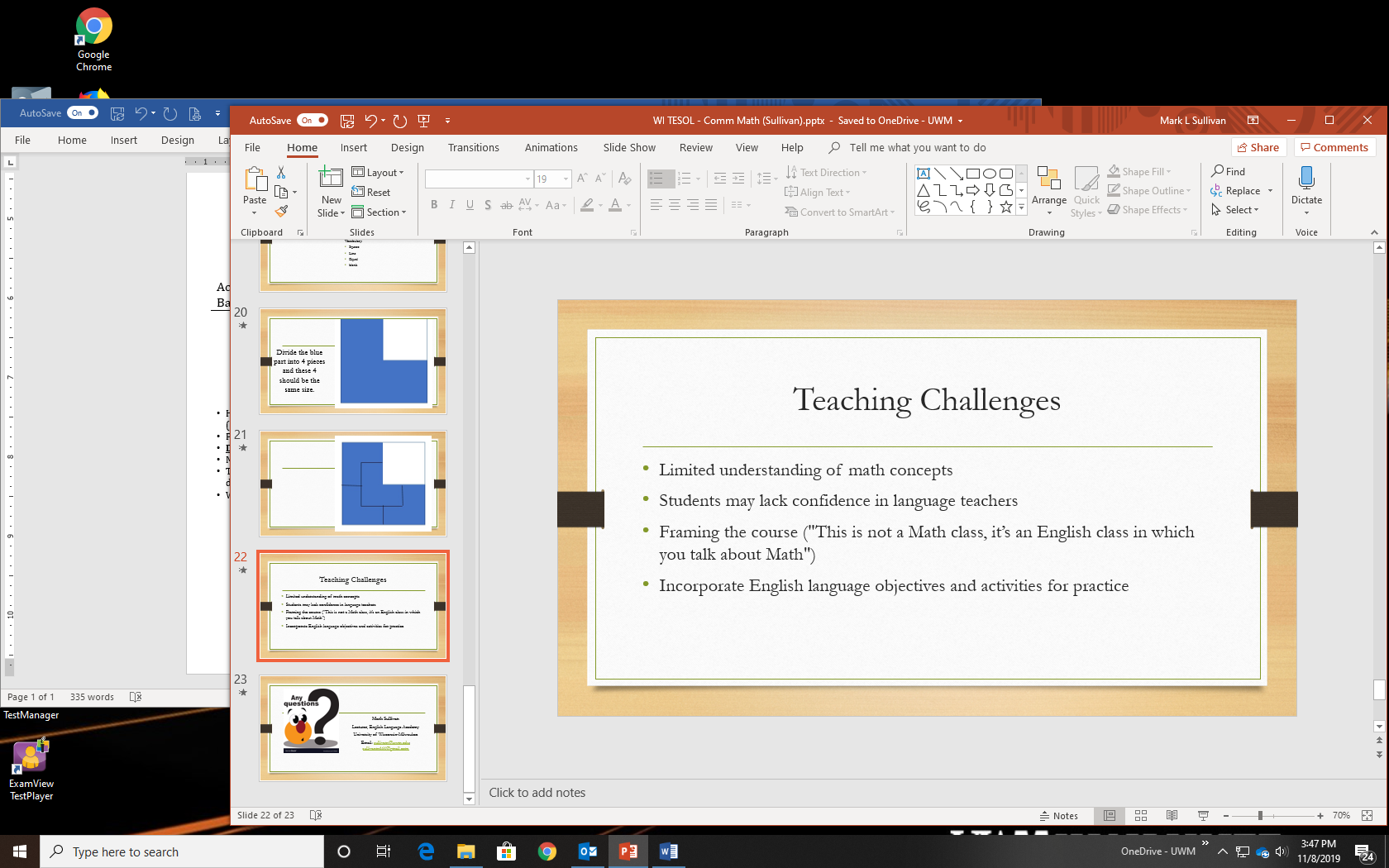
**Tips, Tricks, and Activities: Teaching Math to 2nd Language Learners**

WI TESOL Conference, 2019

**Mark Sullivan**

**Warmup Activity:** Can you solve it? Can you explain it?

 A picture containing drawing

Description generated with very high confidence

**Background Information**

* “International students, especially those bound for the United States, are heavily driven to study abroad by one factor: Improved career prospects.” [wenr.wes.org](https://wenr.wes.org/2017/10/career-expectations-experiences-and-outcomes-of-u-s-educated-international-students-what-we-learned)
* “International students [focus] on STEM and business majors, majors which tend to lead to high earning careers.” -www.studyusa.com
* Teacher Education Programs “popping up:” Focus on STEM Field
* A need among international students for GRE Test Preparation
* English for Specific Purposes (ESP): A need for special programs for undergraduate and graduate degree-seeking students

**Activity Ideas: Teaching Math + English**

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| --- | --- | --- |
| Activity 1 (Info Gap): Re-learn Basic Math Concepts | Activity 2: “Teachers” and “Students” Powerpoint Exercise | Activity 3: “Readers” and “Artists” Whiteboard Exercise |
|  |  |  |
| * Have students face each other in their chairs (across from each other) * Pass out sheets (A sheet & B sheet) * **Do not** show each other your sheets * Model as a whole class * Take turns asking & answering questions to determine the formulas * Walk around & monitor; assist as needed | * + Divide students into “Teachers” and “Students”   + Have them stand up 🡪 “Teachers” face the board (PPT), and “Students” face away – not allowed to turn around   + “Teachers” read the problem aloud to “Students,” and they repeat (let them repeat multiple times)   + Everyone: Turn around and try solving the problem | * + Divide students into “Readers” and “Artists”   + Give “Artists” a whiteboard marker and “Readers” the word problem   + Have them stand up 🡪 “Artists” go to an area of the whiteboard with their marker   + “Readers” read the problem aloud to “Artists,” who then draw what they hear   + Once finished, solve the problem together using the drawing |

**Assessment Ideas**

* Note-taking Skills
  + Use 3-column Note-taking System ([www.youtube.com/watch?v=mr7dz-IEJTE](https://www.youtube.com/watch?v=mr7dz-IEJTE))
  + Khan Academy ([www.khanacademy.org](http://www.khanacademy.org/)) or Ted Talks ([www.ted.com/talks](http://www.ted.com/talks))
* Math Presentation
  + Students choose a Math problem (a famous one or their own)
  + Students prepare a presentation, and explain “how to solve it” step-by-step

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**Questions?** My contact information is below:

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