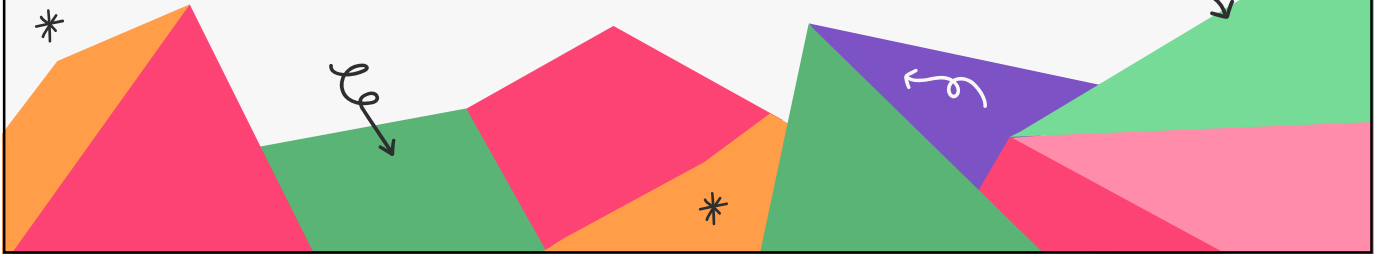


Number Talks and Mathematical Discourse for the Dual Language Classroom

Dr. Terri Stockberger, New Mexico State University



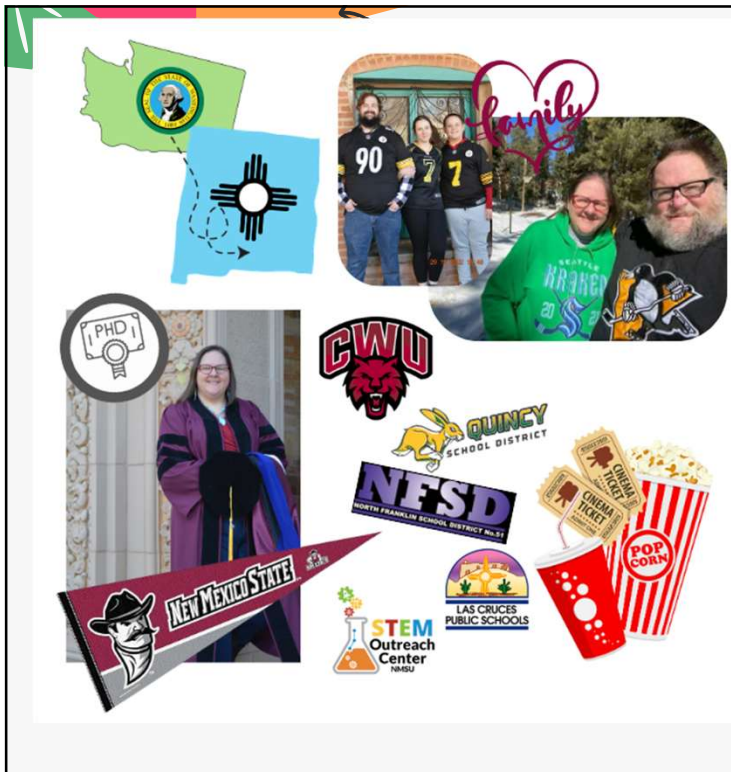
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Agenda

- Introduction
- Ice Breaker
- Let's do a Number Talk
- Research in Translanguaging and Linguistic Agency
- Collaborative Planning and Discussion
- Share-Out
- Questions/Answers

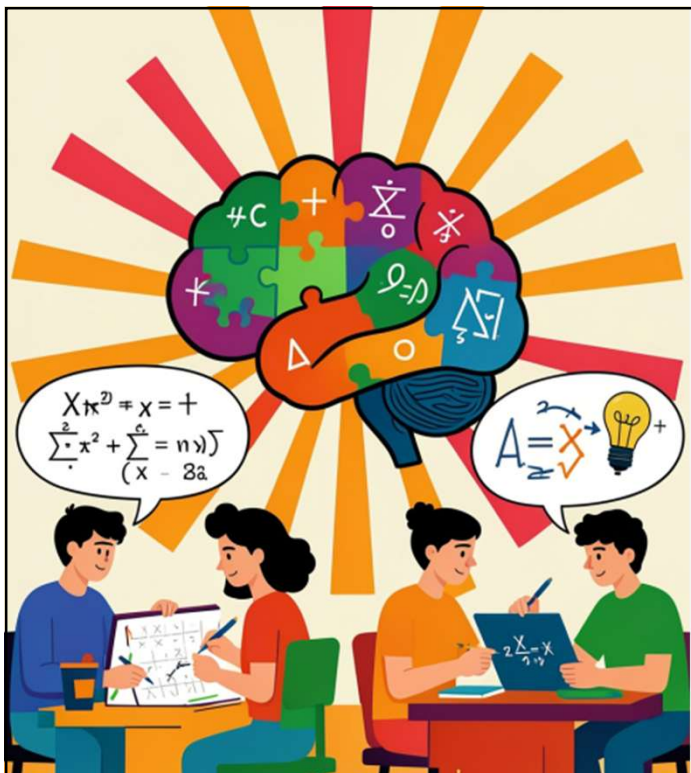


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Introduction

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What are your important numbers?

Take a few minutes to think about the numbers that are important to you.

Personal Number	Family Number
Professional Number	Funny Number

4

- **What is a Number Talk?**

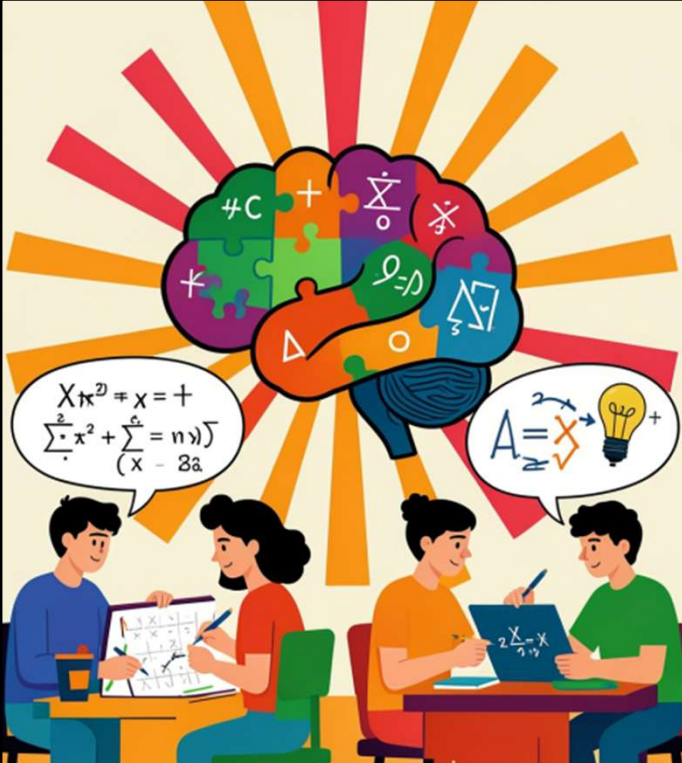
- “a brief daily practice where students mentally solve computation problems and talk about their strategies” (Humphreys & Parker, 2015)
- Number talks are a pivotal vehicle for developing efficient, flexible, and accurate computation strategies and build upon the key foundational ideas of mathematics (Parrish, 2014).

5

Number Talk

$$18 \times 5$$

6



What are some language challenges in **math learning**?

7

What does the **research** say?

Teacher Noticings and Linguistic Agency:
Making Mathematics Discourse Accessible Through Translanguaging (2025)

- Creating safe spaces promotes **active participation** in mathematics.
- **Translanguaging** in mathematics supports engagement and understanding.
- Participants' **personal language histories** shape attitudes and instructional choices in mathematics.
- Teachers **intentionally** plan for language in mathematics
- Encouraging language learning also requires **"in the moment"** teacher moves.

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Number Talk Planning

Number Talk Planning Template	
Number Talk Problem	Follow Up Problem(s)
Possible Strategies	Teacher Questions for Students
	Vocabulary to Highlight
Language Support	

- Planning for Number Talks needs to be intentional to gauge student understanding, encourage specific strategies, help students understand a variety of models, and/or provide students opportunities to share unique thinking.
- Language supports should also be intentional to support specific student linguistic needs.
- Remember, linguistic agency plays a part in this process. Teachers allowing themselves and their students the freedom to communicate in the language that supports meaning is vital to conceptual understanding.

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Brainstorm with your group on what **language supports** you can offer students as part of a number talk.



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Conclusions

- Number Talks are a short math routine that helps get kids talking about their math thinking.
- Translanguaging can help students and teachers to use their full language repertoire to communicate their math thinking.
- Intentional planning and "In-the-moment" teacher moves can help to make Number Talks most effective for all students.

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Thanks

Do you have any questions?

Dr. Terri Stockberger

tstock71@nmsu.edu



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