



Math Conversations

Accuracy, Efficiency and Flexibility with Numbers

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Central Idea:

Math conversations build accuracy, efficiency and flexibility with numbers.

An inquiry into...

- teacher facilitated math conversations (form)
- the six steps to improve number sense (function)
- how math conversations enrich the PYP classroom (connection)









What are the benefits of having conversations about math thinking?







FORM What is a Math Conversation?



- Daily routine
- 5-15 minutes
- Teacher is facilitator
- Promotes a community of risk takers



Why Math Conversations?

To Improve Computational Fluency and Number Sense

- Builds students' repertoire of a variety of strategies
- Allows students justify their thinking and explain their understanding, and therefore clarify their own thinking and reasoning
- Help students learn to produce accurate answers efficiently
- Promotes oral language development and listening skills
- Encourages students to make mathematical connections
- Reinforces meta-cognition and reflection





Six Step Math Conversation Process

- 1. Teacher presents the problem
- 2. Students figure the answer mentally (wait time)
- 3. Students share their answers
- 4. Students share their thinking- justify answers
- 5. Class agrees on "real answer"
- 6. Steps are repeated for additional problems







Examples of Math Conversations

Video removed







Genta- Pre-k to Grade 2 teachers Leah- Grades 3 to 6 teachers



Making 60% **Connections** Constructing meaning 25% 15% Applying with Transferring understanding meaning



Connection





Resources & Contacts





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