


Math Talk:
Teaching Concepts & Skills
Through Illustrations and Stories

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SDE Booth #936

Expect Extra-ordinary

NCTM 2016 Annual Meeting & Conference
Saturday, April 16, 2016
11:00 am – 12:00 pm
303 Moscone

 **Staff Development for EDUCATORS**
1-877-388-2054 | www.SDE.com

Session Handouts

Have questions or interested
in continuing the conversation?

Come visit Char in SDE booth #936!

Friday, April 15 2 - 4 PM

Saturday, April 16 8 – 10 AM

Math Talk: Teaching Concepts & Skills through Illustrations and Stories

1. A “math talk” activity helps build students’ number sense through purposeful practice with how numbers are used:

- Rote counting
- Rational counting
- Cardinal numbers
- Subitizing
- Ordinal numbers
- Measurement
- Nominal numbers

2. Sources for “math talks:”

- Nursery rhymes & fairy tales
- Illustrations from story books or content-area texts
- Thematic illustrations

3. *Have You Seen Any Good Math Lately?* Sources:

- Photographs
- Postcards
- Art prints

- Magazine pictures or illustrations

4. Creating “math stories” & word problems

- Math stories – addition & subtraction
- Number bond stories – addition & subtraction
- Multiplication stories
- Division stories

NOTES:

REFERENCES & RECOMMENDED RESOURCES

1. Chapin, Suzanne H. and Art Johnson. (2000) *Math Matters Understanding the Math You Teach*. Math Solutions Publications.
2. Forsten, Char. (2005) *Math Strategies You Can Count On!* Crystal Springs Books.
3. Forsten, Char & Torri Richards. (2009) *Math Talk*. Crystal Springs Books.
4. Forsten, Char. (2010) *Step-by-Step Model Drawing: Solving Word Problems the Singapore Way*. Crystal Springs Books.
5. *Highlights High Five* (magazine published in both English and Spanish by Highlights).
6. Kuhns, Catherine. (2009) *Building Number Sense*. Crystal Springs Books.
7. Yeap, Ban Har Dr. (2007) *Tortoise and the Hare* (A mathematical approach to illustrated series of popular nursery rhymes & fairy tales) Singapore: Marshall Cavendish Education. Distributed by www.singaporemath.com.

WEBSITES

1. Staff Development For Educators - www.sde.com
2. Crystal Springs Books - www.crystalsprings.com
3. Highlights – www.highlights.com
4. Interactive model drawing: www.thinkingblocks.com
5. National Council of Teachers of Mathematics - www.nctm.org