

80- Strategies and Scaffolds: Bridges to Understanding for Struggling Math Learners



Pathways to Success for all Learners

MATH REFERENCES

NCTM April, 2016

- Burns, M. (2007). Nine ways to catch kids up. *Educational Leadership*, 16-21.
- Dweck, C. (2006). *Mindset: The new psychology of success*. New York, NY: Ballentine Books.
- Fuchs, L.S. and Fuchs, D. (2007). Mathematical problem solving. In D. Birch and M. Mazzocco, Eds. Why is math so hard for some children? The nature and origins of mathematical difficulties and disabilities. (P. 397-414). Baltimore: Brookes.
- Lewis, Katherine E. (2014) Difference Not Deficit: Reconceptualizing Mathematical Learning Disabilities, NCTM. Vol.45 Issue 3.
- Meltzer, L. (2010). *Promoting executive function in the classroom*. K.R. Harris & S. Graham (Eds.). New York, NY: The Guildford Press
- Meltzer, L. (2014). Teaching executive functioning processes: Promoting metacognition, strategy use, and effort. In S. Goldstein & J. Naglieri (Eds.), *Handbook in Executive Function* (445-473). New York, NY: Springer Science and Business Media.
- Meyer, D. (2011). Dan Meyer's Three Acts Math Tasks. Retrieved February 23, 2016, from https://docs.google.com/spreadsheets/d/1jXSt_CoDzyDFeJimZxnhgwOVsWkTQEsfqouLWNNC6Z4/e/dit?pref=2&pli=1#gid=0
- Pearce, Kyle. "Is There a Best Way to Learn Mathematics." Weblog post. *Tap into Teen Minds*. Kyle Pearce, n.d. Web. 5 Apr. 2016. <<https://tapintoteenminds.com/best-way-to-learn-math/>>.
- Roditi, B. and Steinberg, J. (2007). The Strategic Math Classroom: Executive Function Processes and Mathematics Learning in Meltzer (Ed). *Executive Function in Education*, NY: Guilford Press.
- Roditi, B., and Steinberg, J. (2006). Math strategy instruction: Assessment for strategic teaching in Meltzer et al. *Strategies for Success*. 2nd Edition. Austin, TX: Pro-Ed. Inc.
- Russell, S. J., Schifter, D., Bastable, V. (2011) Connecting arithmetic to algebra (Professional Book): Strategies for building algebraic thinking in the elementary grades. Portsmouth: Heinemann.
- Slesnick, S., (2009) Effective* Classroom practices that bring ALL students into the Mathematics Community, NCTM Conference, Boston, MA: America's Choice.
- Steadly, K., Dragoo, K., Arefeh, S., & Luck, S. (2012, August 12). *Effective mathematics instruction*

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in Evidence for Education (III) I. Retrieved February 4, 2013, from National Dissemination Center for Children With Disabilities website: www.nichcy.org/research/ee/math

Strickland, T.K., & Maccini, P. (2012). *The effects of the concrete- representational-abstract-integration strategy on the ability of students with learning disabilities to multiply linear expressions within area problems. Remedial and Special Education.*

Warshauer, H.K. (2014) – Productive struggle in middle school math classrooms. *Journal of Mathematics Teacher Education.* 17(4), Retrieved from <http://link.springer.com/article/10.1007/s10857-014-9286-3#page-2>

Xin Y.P., Jitendra, A. K., Deatline-Buchman, A. (2005). Effects of mathematical word problem-solving instruction in middle school students with learning problems. *Journal of Special Education*, 39 (3), 181-191.

Yeung, B. (2013). Kids master mathematics when they're challenged but supported: Math test scores soar if students are given the chance to struggle. Retrieved January 22, 2013, from Edutopia website: <http://www.edutopia.org> .

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Math Websites: NCTM- April 2016

1. Meyer, Dan. Math in Three Acts. <http://threeacts.mrmeyer.com>
2. Palmer, Andrea “Nana’s Chocolate Milk” in *A Better Lesson*.
<http://betterlesson.com/lesson/472641/nana-s-chocolate-milk>
3. National Library of Virtual Manipulatives: <http://nlvm.usu.edu/en/nav/vlibrary.html>
4. Explore Learning: www.explorelearning.com (Chocomatic, Fraction Garden, Treasure Hunter gizmos are especially good).
5. Solve-Me Mobiles (Algebraic reasoning in a creative, visual way. This is part of the EDC Transitions to Algebra program) <https://solveme.edc.org/Mobiles.html>
6. Math Playground: www.mathplayground.com
7. Shodor Interactivate: www.shodor.org/interactivate
8. Elementary: www.internet4classrooms.com/math_elem.htm
9. Khan Academy: www.khanacademy.org
10. For geometry: www.mathwarehouse.org
11. Decimal Squares: <http://www.decimalsquares.com/dsGames/>
12. Find Grampy (fractions) www.visualfractions.com
13. Examples of ideas for math strategy notebooks:
<http://www.pinterest.com/acqua44/interactive-math-notebook/>
14. Burns, Marilyn Do The Math, an intervention program
http://teacher.scholastic.com/products/dothemath/?psch=PI/ps/20110403/google/pd/txt/Darby_ppc//general
15. Math Aids: Fractions on a Number Line
http://www.math-aids.com/Number_Lines/Fractions_Number_Lines.html