

## Coaching for Math GAINS Resources

<b>Materials Aligned with <i>Coaching for MATH GAINS</i></b>	
<b>APPROACH</b>	<b>SOURCE</b>
<b>ASSESSMENT</b> <ul style="list-style-type: none"> <li>- Assessment Professional Learning 8-part series</li> <li>- PRIME, ONAP</li> <li>- First Steps in Math, Numeracy Nets</li> </ul>	GAINS Nelson Pearson
<b>DIFFERENTIATING INSTRUCTION</b> <ul style="list-style-type: none"> <li>- Differentiating Instruction Through Questioning Professional Learning 6-part series</li> <li>- Student Success Math DI Professional Learning 3-part series</li> <li>- CLIPS</li> <li>- First Steps in Mathematics Course for Coaches</li> </ul>	GAINS GAINS GAINS, OAME Pearson
<b>EFFECTIVE USE OF MANIPULATIVES AND TECHNOLOGY</b> <ul style="list-style-type: none"> <li>- Gizmos</li> <li>- Effective Use of Interactive Whiteboards</li> <li>- Instructional Supports (manipulative video clips)</li> </ul>	GAINS TMERC LMS
<b>FOCUSSING ON IMPORTANT MATHEMATICS</b> <ul style="list-style-type: none"> <li>- Big Ideas of Algebraic Reasoning (coming)</li> <li>- Big Ideas, Dr. Marian Small</li> <li>- Making Math Meaningful, Dr. Marian Small</li> <li>- Teaching Student-Centered Mathematics, John Van de Walle</li> <li>- BreakThrough Math Professional Learning</li> <li>- PRIME, ONAP</li> <li>- First Steps in Math, Numeracy Nets</li> </ul>	GAINS Nelson Nelson Pearson Pearson Nelson Pearson
<b>MATHEMATICAL PROCESSES</b> <ul style="list-style-type: none"> <li>- Teaching Through the Mathematical Processes Professional Learning 6-part series</li> <li>- Teaching Through Problem Solving and The Three Part Lesson Video and Facilitator's Guide</li> <li>- BreakThrough Math Professional Learning</li> </ul>	GAINS GAINS Pearson
<b>TIPS</b> <ul style="list-style-type: none"> <li>- Key Messages, Lessons, Planning, Processes, Assessment, Continuums and Connections,</li> <li>- TIPS Introductory 8-part series</li> <li>- Lesson Developer's 6-part series</li> </ul>	GAINS, LMS GAINS, LMS GAINS, LMS
<b>Websites</b>	
<b>Coaching wiki</b>	<a href="http://gains-coaches.wikispaces.com/">http://gains-coaches.wikispaces.com/</a>
<b>GAINS</b>	<a href="http://www.edugains.ca">www.edugains.ca</a>
<b>GAINS Coaching</b>	<a href="http://www.edugains.ca/newsite/math/coachformath.htm">www.edugains.ca/newsite/math/coachformath.htm</a>
<b>OAME</b>	<a href="http://www.oame.ca">www.oame.ca</a>
<b>LMS</b>	<a href="http://www.edu.gov.on.ca/eng/studentssuccess/lms/library.html#TIPS4RM">www.edu.gov.on.ca/eng/studentssuccess/lms/library.html#TIPS4RM</a>
<b>TMERC</b>	<a href="http://www.tmerc.ca/index.php">www.tmerc.ca/index.php</a>

## **Books:**

- West, Lucy & Staub, Fritz; *Content-Focused Coaching*; Heinemann, 2003
- Burns, Marilyn; *The Math Coach Field Guide: Charting Your Course*; Math Solutions, Sausalito, CA, 2006
- Knight, Jim; *Instructional Coaching: A Partnership Approach to Improving Instruction*; Corwin Press, 2007
- Knight, Jim; *Coaching Approaches and Perspectives*; Corwin Press, 2009
- Morse, Amy; *Cultivating A Math Coaching Practice*; Corwin Press, 2009
- Stone, Randi; Cuper, Pru; *Best Practises for Teacher Leadership*, Corwin Press, 2006- (chapters on Professional Collaboration within an Inclusive Classroom Setting & Team Teaching from Two Perspectives)
- Ministry of Education, Ontario, *Education for All, Expert Panel Report on Literacy & Numeracy Instruction for Students with Special Needs, K-6*, 2005
- Ministry of Education, Ontario, *Leading Math Success (Expert Panel Report)*, 2004
- Ministry of Education, Ontario, *Ontario Math Curriculum Grades 1-8, 9&10, 2005, gr 11&12*, 2006
- Ministry of Education, Ontario, *TIPS4RM* introductory sections (7, 8, 9P, 10P), 2005-2008
- Ministry of Education, Ontario, *Think Literacy Math* gr 7-9, gr 10-12, <http://www.edu.gov.on.ca/eng/studentssuccess/thinkliteracy/library.html>
- Van de Walle, John, *Elementary and Middle School Mathematics, 4<sup>th</sup> ed.*, Pearson Education, 2001
- Small, Marion, *Big Ideas from Dr. Small: Creating a Comfort Zone for Teaching Mathematics*, Nelson Publishing, 2009
- Small, Marion; *PRIME Number Sense & Operations, Background and Strategies*; Nelson Publishing, 2005

## **Articles:**

- Lipton, Laura and Wellman, Bruce; *How to talk so Teachers will Listen*; ASCD Educational Leadership September 2007, Volume 65, Number 1, pp 30-34; <http://www.bcssa.org/pro-d/conf-present/LLA-Y6/talktoteachers-ascd.pdf>
- Schen, Molly; Rao, Sanjiv; Dobles, Ricardo; *Coaches in the High School Classroom, Studies in Implementing High School Reform*, Annenberg Institute for School Reform, Schools for a New Society Carnegie Corporation of New York, March 2005

### **Video and webcast:**

Knight, Jim; The Instructional Coaching Virtual Conference at University of Kansas

(<http://www.instructionalcoach.org/conference/virtual/knight.html> )

Lipton, Laura & Wellman, Bruce; *Effective Mentoring: Building Learning Focused Relationships*,

The Video Journal of Education, 2003

Literacy & Numeracy Secretariat, Ontario; *Coaching for Student Success in Mathematics*

(<http://www.curriculum.org/secretariat/june28.shtml> )

Literacy & Numeracy Secretariat, Ontario; *Differentiating in Mathematics*

( <http://www.curriculum.org/secretariat/may28.shtml> )

Literacy & Numeracy Secretariat, Ontario; *High Yield Strategies for Improving Mathematics*

*Instruction and Student Learning (CIL)*

(<http://www.curriculum.org/secretariat/february26.shtml> )

Ministry of Education, GAINS CD, *Collaborative Assessment*, Trillium Lakelands DSB, 2009

Ministry of Education, GAINS CD, *Math Coaching*, Simcoe County DSB 2009

Schultz Centre for Teaching and Leadership , *Collaborative Teaching Cycle*,

(<http://www.schultzcenter.org/coachingcycle.shtml>)

What is coaching?: <http://www.hr.ubc.ca/odl/coaching/1on1/whatiscoaching.html>

### **Questioning:**

Probing Questions: [http://www.lasw.org/questions\\_probing.html](http://www.lasw.org/questions_probing.html)

Strategic Questions: <http://fno.org/nov97/toolkit3.html>

Coaching Questions:

<http://www.fulcrumsearchscience.com/Articles/CoachingwithQuestions.htm>