

# Earl Haig Workshop

## Websites

NCTM – National Council for Teachers of Mathematics  
<http://www.nctm.org/standards/content.aspx?id=26863>

### **Our curriculum is based on NCTM Standards.**

e.g.,

Computational fluency--having and using efficient and accurate methods for computing--is essential. Students should be able to perform computations in different ways, including mental calculations, estimation, and paper-and-pencil calculations using mathematically sound algorithms. All students should use calculators at appropriate times, setting the calculator aside when the instructional focus is on developing computational algorithms. Computational fluency should develop in tandem with understanding.

### **If you need information about mathematics:**

Dr Math

<http://mathforum.org/dr.math/>

Khan Academy

<https://www.khanacademy.org/>

### **Statements found on the Khan Academy website.**

Some coaches are experts on the content their learners are studying and can provide alternative explanations and examples when learners get stuck. However, not every coach feels comfortable being the teacher, and that's OK! Here are a few simple ways you can support learners without needing to know the material upfront.

### **Learn with them**

Education is about learning how to learn. Since we all confront new challenges every day, we must all be lifelong learners! Modeling this behavior can be incredibly powerful. Practice math skills, watch videos actively, and create computer programs alongside your learners. If you have time, you might also find it helpful to take a look at the material before your learners do.

You and your learners can ask each other questions and discuss what you're learning. This can be a great way to bond. Most importantly, listen to your learners and treat them as peers.

### **Be the cheerleader**

Sometimes a coach is most powerful as a cheerleader. Telling learners to "keep up the hard work" or "try one more time" encourages perseverance and builds motivation. When learners get stuck, remind them to watch the video, read the hints, and take notes on questions they still have so that they can ask you or another coach for help with specific concepts.

Mathematics Dictionary

<http://www.mathsisfun.com/definitions/>

## **Enrichment**

Mathcentral – University of Regina

<http://mathcentral.uregina.ca/>

Outreach

<http://mathcentral.uregina.ca/en/outreach-activities>

MathFrog – University of Waterloo

<http://cemc2.math.uwaterloo.ca/mathfrog/main.shtml>

Computer Game (probability) Brock University

<http://brocku.ca/mathematics-science/departments-and-centres/mathematics/resources/brock-bugs/EBrockBugs-fixed.html>

Math Stories – George Gadanidis – University of Western Ontario

<http://www.joyofx.com>

## **EQAO**

Parent Resources

<http://www.eqao.com/Parents/Elementary/036/BookletsandGuides.aspx?Lang=E&gr=036&yr=14>

## **A place to visit:**

Museum of Mathematics in New York

<http://momath.org>

## **A Few Additional Hot Links**

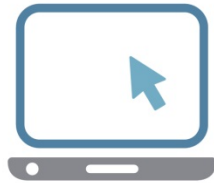
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[Math Curse](#) by Jon Scieszka  
[The King's Chessboard](#) by David Birch  
[Annos Magic Seeds](#) by Mitsumasa Anno  
[If the World Were a Village](#) by David Smith  
[G is for Googol](#) by David M. Schwartz



[UNO](#)  
[Math Dice](#)  
Lego building bricks  
[Nim](#)  
[Abalone](#)  
[Mancala](#)



[Nature by the Numbers](#) (excellent 4 minute math video)  
[Homework Help](#) (sponsored by TVO for Grade 7-10 students)  
[Dr. Math](#) (award winning math question forum)  
[Math is Fun](#) (illustrated math dictionary for elementary grades)  
TVO program - [LookKool](#) – coming in September



English [Ontario Math curriculum, Grades 1-8](#)  
French [Ontario Math curriculum, Grades 1-8](#)  
[Homework](#): How much is enough? (research from Council of Ministers of Education Canada)



[Make](#) Islamic Stars