GAINS Growing Accessible Interactive Networked Supports in Mathematics Education

GAINS Math CAMPPP 2010

(**C**ollaborative **A**ctions for **M**athematical **P**rofessional learning, **P**recision, **P**ersonalization)

Grade K-12 teachers are invited to participate in the *GAINS Math CAMPPP 2010* from noon on August 16th to noon on August 20th, 2010 at Kempenfelt Conference Centre in Barrie. The cost of accommodation, meals, registration, and travel are paid in full by the Ministry of Education Math GAINS initiative. Until May 31st, spaces are being offered to school or board teams of up to five individuals, consisting of at least one principal/vice principal/superintendent and one board level math curriculum consultant/coordinator and up to three teachers. After this date, individual CAMPPPers will be accepted on a first come, first served basis, space permitting.

A $100 deposit per person, cheque payable to the Council of Ontario Directors of Education (CODE), is required to secure a space. **The cheque will be cashed only if you do not attend without canceling in advance**. Uncashed cheques will be returned on August 20th.

One important goal of mathematics schooling is development of a strong sense of proportional reasoning. The beginnings of a deep understanding develop in K-2. We see Math CAMPPP as an opportunity to build teacher capacity in both content and pedagogical knowledge related to proportional reasoning K-12. Participants will delve into the big ideas in proportional reasoning, focusing on the interconnections across the grades and strands to both simplify and enrich instruction. In an effort to support the diverse needs of all learners, participants will explore differentiated instruction through questioning, with particular attention to the use of open and parallel questions. Activities will demonstrate the value of rich mathematical conversations, effective use of manipulatives and technology, teaching through the mathematical processes, and assessment for and of learning.

We are pleased that Dr. Marian Small will be facilitating the plenary sessions. Each day will include a balance of plenary and breakout sessions. Participants will have the opportunity to select one of six breakout sessions for the duration of CAMPPP:

- K-2: Proportional Reasoning: Laying the Foundation
  - Additive relationships that link to multiplication, place value, comparing numbers, skip counting
- 3-6: Proportional Reasoning: Focus on Multiplicative Thinking
  - Broadening perspectives of fractions, models for multiplication, gap closing for addition, connections between additive and multiplicative relationships
- 7/8: Proportional Reasoning: Focus on Ratio and Fractional Relationships
  - Thinking of fractions as relationships, fraction, ratio, and percent relationships, gap closing for multiplication, linking proportional reasoning to patterning
- 9/10: Proportional Reasoning: Focus on Proportional Thinking
  - Formal thinking of rate of change, reconsidering unit rates, trigonometric ratios, gap closing for fractions, links between proportional reasoning and growing patterns
- 11/12: Proportional Reasoning: Building to More Complex Relationships
  - Rates of change beyond linear functions, gap closing for fractions and solving proportions, trigonometric ratios, logarithmic and exponential functions
- Leaders: Creating an Environment for Mathematical Success
  - Leaders as facilitators of change; short and long term planning for improvement in mathematics teaching and learning; practicing how to help teachers focus on high yield strategies in the mathematics classroom

Breakout selections will be made on the application form attached.

Over the course of the five days, participants will have the opportunity to share experiences, ideas and insights from whole group and breakout sessions, with board and cross-board colleagues.

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A tentative schedule of the Math GAINS CAMPPP activities is provided below.

Day	Time	Focus
Monday August 16th	*12:00pm – 1:00 pm*	*Lunch*
	1:00pm – 1:30pm	Welcome
	1:30 pm - 2:45 pm	Plenary
	2:45 pm – 3:00 pm	*Break*
	3:00 pm – 4:00 pm	Plenary
	4:00 pm – 6:00 pm	*Networking Time*
	6:00 pm – 7:00 pm	*Dinner*
	7:00pm – 8:30 pm	Focused Breakout Session
Tuesday August 17th	*7:30 am – 8:30am*	*Breakfast*
	8:30 am – 10:30 am	Plenary
	10:30 am – 10:45 am	*Break*
	10:45 am – 12:00pm	Focused Breakout Session
	12:00 pm – 1:00 pm	*Lunch*
	1:00- 2:30	Focused Breakout Session
	2:30 pm – 2:45 pm	*Break*
	2:45 pm – 4:45 pm	Plenary
	4:45 pm – 6:00 pm	*Networking Time*
	6:00 pm – 7:00 pm	*Dinner*
	7:00pm – 8:30 pm	Focused Breakout Session
Wednesday August 18th	*7:30 am – 8:30am*	*Breakfast*
	8:30 am – 10:30 am	Plenary
	10:30 am – 10:45 am	*Break*
	10:45 am – 12:00pm	Focused Breakout Session
	12:00 pm – 1:00 pm	*Lunch*
	1:00 pm – 3:00 pm	Focused Breakout Session
	3:00 pm – 3:15 pm	*Break*
	3:15 pm – 4:45 pm	Focused Breakout Session
	4:45 pm – 6:00 pm	*Networking Time*
	6:00 pm – 7:00 pm	*Dinner*
Thursday August 19th	*7:30 am – 8:30am*	*Breakfast*
	8:30 am – 10:30 am	Plenary
	10:30 am – 10:45 am	*Break*
	10:45 am – 12:00pm	Focused Breakout Session
	12:00 pm – 1:00 pm	*Lunch*
	1:00 pm – 3:00 pm	Focused Breakout Session
	3:00 pm – 3:15 pm	*Break*
	3:15 pm – 4:45 pm	Focused Breakout Session
	4:45 pm – 6:00 pm	*Networking Time*
	6:00 pm – 7:00 pm	*Dinner*
Friday August 20th	*7:30 am – 8:30am*	*Breakfast*
	8:30 am – 9:30 am	Focused Breakout Session
	9:30 am – 9:45 am	*Break*
	9:45 am – 12:00 am	Plenary
	12:00pm – 1:00pm	*Lunch (brown bagged)*

We hope that your schedule permits you to join *GAINS Summer Math CAMPPP*. Feel free to contact either of us if you have any questions.

Sincerely,

Shelley Yearley
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GAINS Math CAMPPP 2010 Application Form

Name: _____

Email: _____ (to June 30th)

_____ (after June 30th)

School Board: _____ Position: _____

Grade(s) taught: _____

Other School/Board Team Member Names: _____

_____

Summer Address:

Street/Mailbox: _____

Town/City: _____ Postal Code: _____

Phone Number: _____ Alternate: _____

Breakout Selection

K – 2 ☐ 3 – 6 ☐ 7/8 ☐ 9/10 ☐ 11/12 ☐
Leadership ☐

Accommodation and Meal Information

Preferred Roommate: _____

_____

Dietary Concerns:

Return completed form and deposit cheque to:
Shelley Yearley, 239 Stephenson Road 12 East, RR #3, Utterson, ON, P0B 1M0

APPLICATIONS ARE ACCEPTED ON A FIRST COME, FIRST SERVED BASIS.