

$$i = \left(\frac{FV}{PV} \right)^{\frac{1}{n}}$$

$$y = a \sin(bx)$$

$$r^2 = a^2 + b^2$$

$$f = \frac{1 + \sqrt{5}}{2}$$

$$n = - \frac{\ln(1 - \frac{i_2 \times PV}{PMT})}{\ln(1 + i_2)}$$

$$A_N = A_1 r^{N-1}$$

$$PV = FV$$

$$x = As \sin nt$$

$$y = Bs \cos nt$$

$$\text{slope} = m = \frac{y_2 - y_1}{x_2 - x_1}$$

$$PH = -\log[H]$$

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CASIO



Wednesday, May 20

TIME	ACTIVITY	LOCATION
12:15 - 1:15	Registration and Light Lunch	Fireside 108
1:20 - 2:30	Welcome and Opening Remarks from the Executive An Introduction to Strands of Mathematics in Ontario Colleges - Keynote Discussions How have these areas evolved over time? How are they set up in various colleges (be ready to describe yours!)? Share course outlines (bring some!). What challenges do you face at your college in this strand? What teaching style do you find works best for you in this strand at your college? What best practices do you recommend in this strand? How have degrees changed the curriculum? How are the blended or online or module approaches working? Are mathematics courses being scrapped at your college? Any planned changes in this strand at your college? Want to meet teachers from other colleges in your area? CHOOSE ONE OF THE DISCUSSION STRANDS BELOW!	Bergwens
2:35 - 5:00 (Speakers Session 1)	Technology Math Strand <i>Facilitated by Zafar Khan and Nasim Naji, Centennial College</i>	Bergwens
	Trades Math Strand <i>Facilitated by Don Vander Klok, Lambton College</i>	Fireside 108
	Business Math Strand <i>Facilitated by Tracy Worswick, Conestoga College</i>	Simcoe
	Pre-Health/Pre-Nursing Math Strand <i>Facilitated by Cathy Skimson, Conestoga College</i>	Huronia
	Developmental/Remedial/Upgrading/Pre-Technology Math Strand <i>Facilitated by Paul Balog, George Brown College</i>	420
5:00 - 6:00	Hospitality Suite	Fireside 108
6:00 - 8:00	Dinner, Annual General Meeting, and Elections	Dining Room
8:00 - ???	Pub(lisher) Night Come on over to check out the publishers and vendors. The bar will be open!	Mary Lou's

9:00 - ???	80's Movie Night Join us for a classic movie from the 80's!	Bergwens
	Board Games Join us to play some classic board and card games from the 80's!	Fireside 108
	Video Games Join us to play some classic video games from the 80's!	Mary Lou's

Thursday, May 21

TIME	ACTIVITY	LOCATION
7:00 - 7:30	Walk/Run Activity Participants are welcome to start the day with a walk/run session. Please meet at the Gazebo located at the front of the main lobby.	Gazebo
7:45 - 8:50	Breakfast	Dining Room
9:00-10:00 (Speakers Session 2)	Topic: A Growth Mindset Description: I will discuss some of the reading I have been doing on the "Growth Mindset"- based on Carol Dweck's research and writings as well as related research. There is a big initiative for STEM that is going on this year both in Canada and the US, and I am planning on using some of these cognitive theories in my flipped classes. I will describe how that has worked out this past year. <i>Presenter: Elizabeth Martin, Mohawk College</i>	Huronia
	Topic: Successful Strategies for Math Learning Centres Description: Humber College Math Centre's mobile technology initiatives have resulted in more students getting support than ever before. This presentation will focus on the model of tutoring we use, and it will explore initiatives and technology used to track student engagement and feedback. <i>Presenter: Cameron Redsell-Montgomerie, Humber College</i>	Bergwens
	Topic: Weaving Mathematics Into Program Curriculum Description: In this presentation, I will introduce a useful tool for investigating the sufficiency, adequacy, and relevance of math curriculum to the host program. Further applications of this tool are illustrated by examples. <i>Presenter: Ramin Ghalati, Sheridan College</i>	Simcoe

	<p>Publishers Visit the publishers and exhibitors</p>	Mary Lou's
10:10-10:40 (Speakers Session 3)	<p>Topic: Grooming Students for Advanced Learning Description: Elevate My Math is a system designed to diagnose and remediate students. Its artificial intelligence can make subtle distinctions beyond the simply good-or-bad-at-math inferences. It peels through students' layers of understanding on a skill by skill basis, taking into consideration the hierarchies and cross linkages required to build a strong foundation for mathematical learning. And it goes further: it provides cutting-edge tools to remedy the diagnostic results, so that your students can enter the classroom groomed for advanced learning. We invite you to the Elevate My Math demo to see how this is achieved. <i>Presenters: Anand Karat, Vretta, and Craig Cooke, Mohawk College</i></p>	Bergwens
	<p>Topic: McGraw-Hill Education - Empowering Student Performance Description: Join McGraw-Hill Education to learn more about adaptive learning technology, and the important role it has in empowering student performance and enhancing the classroom experience. Learn how <i>SmartBook</i>, the first and only adaptive reading experience, changes the way students read and learn. See how students reading experience is personalized and how <i>SmartBook</i> continuously adapts based on what the student knows and doesn't know. <i>SmartBook</i> - improving student preparedness, grades and engagement. <i>Presenters: Scott Hardie and Meagan Hay, Learning Solutions Consultants, McGraw Hill</i></p>	Huronia
	<p>Topic: An Introduction to XYZ Textbooks Description: XYZ texts contain homework - online instructional tools that combine online assessment with MathTV.com video lessons. Come to this session to check out XYZ's proven developmental math textbooks that reinforce the concepts taught in the classroom. <i>Presenter: Jim Rozsa, Northrose Associates</i></p>	Simcoe
	<p>Publishers Visit the publishers and exhibitors</p>	

Thursday, May 21 Continued...

TIME	ACTIVITY	LOCATI ON
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10:50- 11:20 (Speakers Session 4)	<p>Topic: Enhancing the Teaching and Learning Experience using Technology</p> <p>Description: Over the years, faculty have contributed to the resources for technology mathematics at Humber College. These resources rely on teaching through textbooks, in-class lectures, and the paper-based resources developed by instructors. With the accessibility of technology to both students and educators, Irene Lee and the Liberal Arts and Sciences department at Humber have embarked on a technology infused course update, in collaboration with Vretta and Wiley. Utilizing existing course materials, blended with cutting-edge technology, the blended hybrid result is one which enhances classroom teaching and the overall student learning experience. In this presentation, participants will have the opportunity to see and envision what a 21st century technology mathematics course can be.</p> <p><i>Presenter: Lionel Loganathan, Vretta, Irene Lee, Humber College, and Zoe Craig, Wiley</i></p>	Bergwen S
	<p>Topic: McGraw-Hill Education - Empowering Student Performance</p> <p>Description: Join McGraw-Hill Education to learn more about adaptive learning technology, and the important role it has in empowering student performance and enhancing the classroom experience. Learn how <i>SmartBook</i>, the first and only adaptive reading experience, changes the way students read and learn. See how students reading experience is personalized and how <i>SmartBook</i> continuously adapts based on what the student knows and doesn't know. <i>SmartBook</i> - improving student preparedness, grades and engagement.</p> <p><i>Presenters: Scott Hardie and Meagan Hay, Learning Solutions Consultants, McGraw Hill</i></p>	Huronia
	<p>Topic: An Introduction to XYZ Textbooks</p> <p>Description: XYZ texts contain homework - online instructional tools that combine online assessment with MathTV.com video lessons. Come to this session to check out XYZ's proven developmental math textbooks to reinforce the concepts taught in the classroom.</p> <p><i>Presenter: Jim Rozsa, Northrose Associates</i></p>	Simcoe
	<p>Publishers</p> <p>Visit the publishers and exhibitors</p>	Mary Lou's
	<p>Topic: Developmental Mathematics</p> <p>Description: This session will explore interactive tools and multimedia resources available to support the learning of basic math skills from the first developmental mathematics title designed specifically for the Canadian market.</p> <p><i>Presenter: Leanne Newell, Nelson</i></p>	420
<p>Topic: Wiley Technology Solutions</p> <p><i>Presenter: Kristen Vander Kooy, Wiley</i></p>	Huronia	

11:30-12:00 (Speakers Session 5)	<p>Topic: A New High Performance Calculator From Casio</p> <p>Description: CASIO is unveiling a new high-performance scientific calculator at OCMA equipped with a high-resolution LCD. This new model is the world's first non-graphing standard scientific calculator to feature a spreadsheet function. Based on the familiar fx991 series, several features have been enhanced to improve usability when calculating and solving engineering equations, differential calculus, distribution, vector operations, statistics, and recursive problems. Utilizing a built-in feature, your numerical formulas and data in the calculator can create and display a graph on a smartphone or tablet. This provides an innovative opportunity to conduct investigations, share and learn, yet still be compliant for testing requirements.</p> <p><i>Presenter: Gord Brown, Casio</i></p>	Simcoe
	<p>Publishers</p> <p>Visit the publishers and exhibitors</p>	Mary Lou's

Thursday, May 21 Continued...

TIME	ACTIVITY	LOCATI ON
12:10 - 12:40 (Speakers Session 6)	<p>Topic: Developmental Mathematics</p> <p>Description: This session will explore interactive tools and multimedia resources available to support the learning of basic math skills from the first developmental mathematics title designed specifically for the Canadian market.</p> <p><i>Presenter: Leanne Newell, Nelson</i></p>	420
	<p>Topic: Wiley Technology Solutions</p> <p><i>Presenter: Kristen Vander Kooy, Wiley</i></p>	Huronia
	<p>Topic: A New High Performance Calculator From Casio</p> <p>Description: CASIO is unveiling a new high-performance scientific calculator at OCMA equipped with a high-resolution LCD. This new model is the world's first non-graphing standard scientific calculator to feature a spreadsheet function. Based on the familiar fx991 series, several features have been enhanced to improve usability when calculating and solving engineering equations, differential calculus, distribution, vector operations, statistics and recursive problems. Utilizing a built-in feature, your numerical formulas and data in the calculator can create and display a graph on a smartphone or tablet. This provides an innovative opportunity to conduct investigations, share and learn, yet still be compliant for testing requirements.</p> <p><i>Presenter: Gord Brown, Casio</i></p>	Simcoe
	<p>Publishers</p> <p>Visit the publishers and exhibitors</p>	Mary Lou's
12:50 - 2:00	Lunch	Dining Room

2:00 - 5:00	Inter-Active Activities <i>See the sign-up sheets for activities, including: Golf / Walking / Biking Trail/ Badminton/ Tennis/Ping Pong/Paint Ball Canoes / Kayaks / Paddle-boats/Mini-golf/Bocce / Horseshoes / Shuffleboard</i>	Outdoors
5:00 - 6:00	Hospitality Suite	Fireside 108
6:15 - 6:30	Group Photo	Gazebo
6:30 - 8:30	Dinner + Awards Keynote Address: BACK TO THE 80'S, A RETROSPECTIVE LOOK OVER 35 YEARS OF OCMA <i>Presenter: Harry Matsugu, Humber College, <u>with invitations to you to reminisce (bring your memories and stories!)</u></i>	Dining Room
9:00 - ???	Video Dance with Karaoke Join us for a retro fun evening. Be sure to wear your 80's outfit!!	Mary Lou's
	80's Movie Night Join us for a classic movie from the 80's!	Bergwens

Friday, May 22

TIME	ACTIVITY	LOCATION
7:00 - 7:30	Walk/Run Activity Participants are welcome to start the day with a walk/run session. Please meet at the Gazebo located at the front of the main lobby.	Gazebo
7:40 - 8:50	Breakfast	Dining Room
	Topic: Calculator Use Accommodation Description: Lambton College has incorporated an arithmetic review of adding, subtracting, multiplying, and dividing whole numbers, fractions, and decimals using NO CALCULATOR into its trades, pre-health, pre-technology, pre-nursing math along with its math assessment. We have now hit a wall with the issue of accommodation for students with a learning disability. This workshop will describe research into elementary and secondary school practices and what happened next at Lambton College. Share how this is handled at your college! <i>Presenter: Don Vander Klok, Lambton College</i>	420

<p>9:00 - 10:00 (Speakers Session 7)</p>	<p>Topic: Carlos Delgado and the Hall of Fame</p> <p>Description: Carlos Delgado was a sterling slugger for the Toronto Blue Jays, perhaps the best slugger in their history. Using various mathematical and statistical formulas, we will analyze his career, and see how he fares, compared to other similar players. Wins Above Replacement, Slugging Average, On-Base Average, and other formulas will be used to make these comparisons.</p> <p><i>Presenter: Steve Krevinsky, Middlesex Community College (Connecticut, USA)</i></p>	<p>Simcoe</p>
	<p>Topic: Using a Flipped Classroom in a Calculus Course</p> <p>Description: All courses in the new business degree programs at Sheridan are offered in a flipped classroom model. This session will focus on how the flipped model was implemented in the Business Calculus and Algebra course. After two consecutive runs in the fall and winter terms, I will share results, including techniques that worked best, overall statistics, and feedback from students and professors.</p> <p><i>Presenter: Natalia Pshenitsyna, Sheridan College</i></p>	<p>Huron</p>

Friday, May 22 Continued...

TIME	ACTIVITY	LOCATION
10:10-11:10 (Speakers Session 8)	<p>Topic: What's Happening With CSAP?</p> <p>Description: The College Student Achievement Project (formerly the College Mathematics Project) has had its most productive year in its 9-year history. This update will outline: the latest CSAP research data on first year student achievement, the completion of the CSAP assessment development project, the completion of the CSAP learning outcomes development project, and the expectations for CSAP going forward in 2015 and beyond.</p> <p><i>Presenter: Graham Orpwood and Emily Brown, CSAP</i></p>	Simcoe
	<p>Topic: Merging Math and Physics into a Just In Time Delivery Course</p> <p>Description: At Durham we are looking at the possible advantages of merging two courses, first semester technical math and physics into a new course which will teach physics and other science fundamentals for Engineering Technology across seven programs, with Just In Time delivery of math content. We will look at the background and challenges of first semester math and what we envision this new course will look like. Please join us to look at the ideas, concepts, and best practices we have developed. Share your own thoughts, insights and experiences with imbedded mathematics instruction.</p> <p><i>Presenter: Dave Schuett, Durham College</i></p>	Hurononia
	<p>Topic: Exploring Bayes' Theorem</p> <p>Description: Why are so many people excited about Bayes? This presentation explores the buzz. The Bayesian approach provides insight into medical test results, improves the odds in oil exploration, and used in court cases. We will explore these and other application of Bayes. But we will start with a painless derivation of Bayes' Theorem, and then move on to Bayesian inference and networks. By the end of this session you will discover that you are a Bayesian.</p> <p><i>Presenter: John Kezys, Mohawk College</i></p>	Bergwens
11:20-12:15	<p>Topic: Birds of a Feather</p> <p>Description: You have a novel approach to a math topic, an app that works wonders, some research you have been doing, or a great way to organize online learning in your course and you want to share this in 10 minutes or less. This is the place! Let Paul Balog know, and he will insert your name in the "Birds of a Feather" schedule.</p> <p><i>Facilitated by Paul Balog, George Brown College</i></p>	Bergwens
12:20 - 2:00	<p>Lunch/Prizes/Check-out</p>	Dining Room