

IB ASIA PACIFIC REGIONAL WORKSHOP AGENDA

DP Mathematics SL (Category 2)

Grand Copthorne Hotel, Singapore
Friday – Sunday, 15 – 17 January 2009

Workshop Leader

Mark Bethune

Mark is currently the Head of Mathematics at the United Nations International School of Hanoi where he has been for the last 5 years. He has taught IB Diploma mathematics at both Higher and Standard levels since 1995 in three different schools. Presently, Mark is a Deputy Chief Examiner for Mathematics SL and has been a Deputy Principle Moderator for Internal Assessment responsible for task design and ensuring that a common marking standard is applied across all tasks. Mark has been involved as an Examiner for the IB Organisation since 2000. As an experienced workshop leader, Mark has trained IB teachers in many countries throughout North America, Europe and Asia.

Mark has a particular interest in how the use of technology can enhance the learning of mathematics and in particular how we can make use of the numerous Web 2.0 tools that are readily and freely available to teachers and to students.

All participants are requested to bring with them the following:

- A copy of this Agenda
 - Graphic Display Calculator
 - Mathematics SL Subject Guide (for first examination in 2008)
 - Teacher Support Material – The Portfolio for 2011 - 2012
 - Teacher Support material – GDC
 - Favourite lesson idea(s)
 - Details of a favourite Web – based resource
 - USB thumb drive to share resources
 - Laptops with software such as Autograph, GSP, GeoGebra and Fathom installed.
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Please note: session topics are subject to change based on needs of the group

Day 1, 15 January

0830 - 0900

Welcome & Introduction

0900 - 1000

Session 1: Setting the Stage

- Introductions
- Setting the goals for the workshop
- The syllabus and IB teaching approaches in the context of the Learner Profile and the aims of the SL program.

1000 - 1030

Morning Break

1030 - 1200

Session 2: Internal Assessment I

- Overview of the Portfolio and its objectives
- Overview of the assessment criteria
- Discussion of the current set of IA tasks
- Discussion of tasks for 2011 - 2012

1200 - 1300

Lunch

1300 - 1430

Session 3: Internal Assessment II

- Assessment criteria for Investigations
- Assessing student work (Investigations)
- Moderating

1430 - 1500

Afternoon Break

1500 - 1630

Session 4: Internal Assessment III

- Assessment criteria for Modelling
- Assessing student work (Modelling)
- Moderating

1630

End of Day 1

Day 2, 16 January

0830 - 1000

Session 5: Technology I

- Graphic Display Calculator skills

1000 - 1030

Morning Break

1030 - 1200

Session 6: External Assessment

- An overview of the May 2009 exams
- The no – calculator paper
- Expectations for GDC use on Paper 2
- Using the mark scheme to assess student work

1200 - 1300

Lunch

1300 - 1430

Session 8: Curriculum Planning

- Planning a two year program
- Fitting courses to students; HL vs. SL
- Developing schemes of work while integrating technology

1430 - 1500	Afternoon Break
1500 - 1630	Session 8: OCC and Resources <ul style="list-style-type: none"> ▪ Exploring the OCC ▪ Textbooks and resources for students ▪ Resources for teachers, especially web based and electronic ▪ Web 2.0 Tools and Mathematics SL
1630	End of Day 2
<u>Day 3 17 January</u>	
0830 - 1000	Session 9: Technology II <ul style="list-style-type: none"> ▪ Introduction to Autograph/GSP/Fathom ▪ Simple Investigations with Autograph
1000 - 1030	Morning Break
1030 - 1200	Session 10: Teaching Approaches <ul style="list-style-type: none"> ▪ Teaching with GDC ▪ Introducing modelling ▪ Investigations (guided student discovery); where do they fit? ▪ Sharing ideas
1200 - 1300	Lunch
1300 - 1430	Session 11: Theory of Knowledge and the Examination Process <ul style="list-style-type: none"> ▪ Outline of TOK in mathematics ▪ TOK in action – a TOK lesson ▪ The examination process and setting boundaries at Grade Award
1430 - 1500	Afternoon Break
1500 - 1600	Session 12: Designing Portfolio Tasks <ul style="list-style-type: none"> ▪ Using a template to write portfolio tasks ▪ Where do they fit?
1600	Workshop Closes and Award of Certificates*

* An official "IB Certificate of Attendance" is awarded to participants who have attended all sessions of a workshop. Please ensure that travel arrangements do not preclude candidacy for a certificate.