Math HL Networking Session
Bethesda-Chevy Chase High School
October 19, 2011

Session Agenda:

I. Introductions
II. Break into groups by amount of experience
   a. What do you want to leave with today
   b. List of questions
III. Break into groups with varying years of experience
   a. Ask and answer questions
IV. Online Curriculum Centre (OCC)
V. Textbook suggestions
VI. Internal Assessments
   a. After group discussion, break into groups:
      i. Statistics and Probability
      ii. Sets, relations, and groups
      iii. Series and Differential Equations
      iv. Discrete Mathematics
VII. Course Sequencing
VIII. Student-centered activities and inquiry-based activities
IX. Preparing for the Exam
X. Closing

*Participants grouped by years of experience.

* Discussion of courses leading up to Math HL:
2 schools Precalculus
1 school Algebra 2/Trig
3 schools doing AP Calculus BC, or AP Stat
4 doing Math HL for one or two years

*IA" changing in 2 years, solutions on OCC
sig.fig, +C (only one point deduction for that particular paper)

*More about IA scoring, finding, solutions

*Whole Group Session:
- Sequencing; prerequisite (different in almost all schools)
- Algebra skills lower coming into HL; need to have precalculus or SL1

*training will probably be local

*Textbooks
- Haase and Harris (3 volumes)
- Peter Smythe
- Pure Math 2
- IB book with exam typs

*Grade Expectations – not the usual 90% or better
*Practice with old exam questions

*Teach "follow through"
- Recognize patterns
- Help from former students
- Show students the big picture
- Use 5-minute reading time to identify easy problems
- Take note of point values

*Internal Assessment by Type
- **Type I**
  - Patterns of systems of equations
  - Help students recognize patterns
  - Graph in winplot – use families of tc
  - How many pieces – use sketch up for 3D graphing (will send info to emails unless requested not to)
- **Type 2**
  - Modelling – not much discussion

- **Options**
  - L:AGRANGE FORM – Forester Calc Book, Old AP questions
  - Non-separable differential equations – homogeneous integrating factor