



IB CS Networking Session

South Lakes High School

Dec 8, 2015

Session Agenda:

- ▶ 10 to 10:20
 - ▶ Introductions
- ▶ 10:20 to 11:30
 - ▶ IA and SL focus
- ▶ 11:30 to 11:45
 - ▶ Break and begin working lunch
- ▶ 11:45 to 12:45
 - ▶ Case study and HL focus
- ▶ 12:45 to 1:30
 - ▶ Paper 2 and Group 4 Project
- ▶ 1:30 to 1:45
 - ▶ Break
- ▶ 1:45 to 2:15
 - ▶ Presentation of teaching materials
- ▶ 2:15 to 2:30
 - ▶ Wrap up and next steps

Session Minutes/Discussion Notes:

IB Networking Session Notes 12-8-15

Introductions

Sandy Davis – South Lakes HS
Sarah Ladwig – South Lakes HS
Everett Lum – Richard Montgomery HS
John Harrison – Princess Anne HS
William Snyder – George Mason HS
Lark Madoo – Annandale HS
Larry Baker – Gar-Field HS

Steve Bartlett – Robinson Secondary

Eileen Malick – Atlee HS

IA and SL focus

- IA Feedback ideas
- A, B, & C, Students submit draft, teacher comments, student submits final
- Gar-Field has students do part A & B on Group 4 project and are given feedback that will support them when doing their IA
- New IB Textbook – Core Computer Science (For the IB Diploma Program), Kostas Dimitriou & Markos Hatzitaskos, Express Publishing, 2015, ISBN 978-1-4715-4209-1
- Provide old Mastery Factor List
- Use spreadsheet to organize student IA Scores and comments
- Suggested to use peer review for comments on IA Criterion
- Online textbook
https://en.wikibooks.org/wiki/IB/Group_4/Computer_Science
- Competition problem sets have good programming ideas
- Pre- and post-conditions. What do I know? What do I need to know? How do I know I got there?

Case study and HL focus

- Case study – CGI Animation – contact local university for possible presenter, check OCC for teaching ideas, do extensive vocab, Focus on “Challenges faced”
- How do you have students implement stacks & queues? Start by using a static array then move on a linked list.
- Ted Ed for videos <http://ed.ted.com/lessons?category=technology> There are good ones titled “How do Hard Drives Work?” and “Inside your Computer”

Paper 2

- How are you teaching Paper 2 topics? Code from UML Diagram, give new OOP programming assignments close to the IB Exam, Sandy is developing a real estate example,
- Steve’s object lesson using Easter eggs, sticky notes, alphabet blocks for packet switching

Group 4 Project

- Students must do a group 4 project but it is no longer a part of their grade
- Sandy shared her group 4 project. Student self-evaluation and reflection on GoggleForms

Presentation of teaching materials

- Sandy – recursion exercise
- Steve – UML Resource
- Eileen – Shared new textbook, see info above
- Sarah – Trace Tables, Self-driving car ethical dilemmas article
- John – Linked list and binary tree project – morse code telegraph station
- Lark – Create animations using listeners on timers

Next steps

- IB Mid-Atlantic Summer Academy, July 28th, Marshall High School, Falls Church, VA

- ' Market your classes to students, South Lakes goes to math classes to advertise
- ' Code.org for Hour of Code
- ' MIT App Inventor is good for after the exam (must use Chrome)