

Session 10: Design and Programming Standards; discussion in groups using similar languages, and/or a group for people starting out on teaching programming.

Preface: Tim Bell talks briefly about Level 3 Standards & Programming Competitions.

Level 3:

Level 3 still up in draft, has been out for consultation, not back yet. Level 3 is set up for a big Project. 3.14. Do an investigation and examples are all Computer Science. In the Generics.

Draft has a number of topics, pick one of them and do an investigation. Know what it is not how to do it. Identify issues.

Think what else are you going to do with it? What context are you wrapping the learning around.

Students need Maths, English, and understanding of other contexts. Google backed this up, they want understanding and communication skills not just Computer Science. Non-curricular content is important as well.

Eg. Where have you led a team and where did it go wrong. Dealing with real people and real issues.

Programming Competitions:

There are a few around. Links will be made available through NZACDITT Website.

1. NZIOI
2. NZPC Competition- Past papers
3. NZACDITT Competition Calendar
4. ACPC (Stopped)
5. Robocup and FLL
6. VEX
7. Computer Clubhouse
8. ALICE PC4G
9. Programming Challenges website (free) & Euler
10. ICAS
11. ACM Scholastic Competition.
12. CCES Competition
13. OTIC Otago Technology Information Challenge
14. New Zealand Mix and Mash