Digital Learning Team

EDINBVRGH
THE CITY OF EDINBURGH COUNCIL

embedding technologies in learning and teaching to improve outcomes for all learners

Working Towards
1:1 Digital Learning

CCwP
14 May 2015

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If we prepare kids only for the past, in the ways of the past - no matter how well we do it - our kids will not be ready for the future

Technology is today as foundational as reading. Just as all education employs reading, all education should employ technology
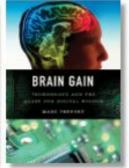
Being a Digital Native DOESN'T mean "knowing everything about technology", but rather "never having lived in a non-digital world"
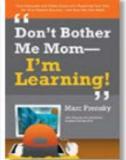
Technology is for our kids like clothing for us - not having it on makes one eccentric, weird & often unwelcome

Marc Prensky (@marcprensky)

ICT in Learning

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- **National ICT in Learning vision**
http://www.scotland.gov.uk/Topics/Education/Schools/ICTinLearning/ICTinLearningVision

  - "Scotland's educators, learners and parents take full advantage of the opportunities offered by technology in order to raise attainment, ambition and opportunities for all."

- **Technologies Impact Report - 'Building Society'**
http://www.educationscotland.gov.uk/resources/0to9/genericresource_tcm4850865.asp?strReferringChannel=educationscotland&strReferringPageID=tcm:4-615801-64

  - "Our children and young people require that centres and schools place digital technologies at the heart of learning"

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1:1 Digital Learning

- '1:1 digital learning' - transforming learning through access to a personal mobile device for every learner that can be used where appropriate in any lesson, and potentially at home

- Traditional practice of providing fixed ICT in specific subjects/depts has largely failed to embed ICT and change pedagogy across the curriculum

- 1:1 digital learning can transform learning by:

  - providing access to up-to-date, authentic information from a huge variety of primary sources

  - allowing us to personalise and transform learning and teaching using a wide range of digital tools

  - allowing us to extend learning, collaborate and publish beyond the classroom

  - improving home school links by increasing parental involvement in learning

  - helping develop the learning, thinking and digital literacy skills vital for success in today's technology rich society

1:1 Pilots

- 2012-13: 2 Primary schools + 2 Secondary schools, 3 platforms

- Whole classes in Primaries, whole year groups in Secondaries

- Devices with pupils 24/7, in school and at home

- 370 devices, no thefts or losses

- Developed 1:1 Toolkit
  (http://digitallearningteam.org/toolkit/)

- Research conducted by Hull University
  (http://digitallearningteam.org/2013/10/24/edinburgh-11-mobile-evaluation/)

- Based on evidence from pilots, recommended device for Edinburgh schools - iPad

Research highlights

- *Levels of engagement and motivation amongst students rose across each of the pilot schools*

- *Student autonomy was considered to be an immediate benefit arising from the allocation of mobile devices*

- *Leadership and visible support from the senior management team was identified as a critical factor in the success and sustainability of the project*

- *The use of personal mobile technologies engaged staff in wider CPD opportunities and activities which changed their attitudes to the use of technology in learning*

- *There is evidence that teachers are shifting their practices in ways which might prove to be very significant. These include different patterns and means of communicating with students to support their learning beyond school; changing relationships between students particularly in regard to the traditional knowledge giver role of the teacher; and new models for organising learning such as the 'flipped classroom'*

Attitudes towards learning (pupils)	Results
Thought it made learning more fun and enjoyable	91% (121)
Thought they were more engaged in learning when using the device	82% (109)
Thought they learned better with the devices	83% (110)
Thought it helped them understand difficult ideas better	79% (105)
Preferred using it to a fixed computer	77% (103)
Thought it helped them work better with other people	68% (91)
Thought they behaved better when using the devices	66% (88)

CEC 1:1 approach

- Funded primarily by schools, but offered 50% seed funding for 1 year group to all secondaries in sessions 2013-15, undertaken by 12/23 secondaries

- Other sectors implementing gradually, with smaller numbers of devices in each class, increasing numbers implementing full 1:1 with P5, 6 or 7

- Build capacity - partnership between key school staff (strategic, curricular and technical) and Digital Learning Team

- Strong focus on planning, preparation and pedagogy

Current iPad deployment

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Sector	No of iPads
Primary	5834
Secondary	7053
Special	475
Nursery	125
Other C&F	534
Total	**14021**

13 May 2015

School	Cluster	Yeargroup 1:1					
		S1	S2	S3	S4	S5	S6
Balerno Community High	South West						
Boroughmuir High	South						
Broughton High	North						
Castlebrae Community High	East	y	y	y	y	y	y
Craigmount High	West						
Craigroyston Community High	North						
Currie Community High	South West						
Drummond Community High	North	y	y	y	y	y	y
Firrhill High	South West						
Forrester High	West			y	y		
Gracemount High	South			y	y	y	y
Holy Rood RC High	East			y	y		
James Gillespie's High	South						
Leith Academy	North				y		
Liberton High	South				y	y	y
Portobello High	East		y	y	y		
Queensferry Community High	West						
St Augustine's RC High	West			y			
St Thomas of Aquin's RC High	South						
The Royal High	West			y	y		
Trinity Academy	North						
Tynecastle High	West			y	y	y	y
Wester Hailes Education Centre	South West			y			

Summary

- 1:1 best way to address national priorities for ICT and digital technologies

- Distributed leadership model works - schools supported by Digital Learning Team

- Continued focus on CPD - 1:1 is inevitable so we need to do all we can now to develop teachers' practice

- Funding is a challenge but can be done - think school not dept, where can we make savings? (cameras, visualisers, books, jotters, homework diaries, photocopying, printing…)

- New ICT managed service (March 2016) will provide further opportunities

- Long term, consider potential role of Bring Your Own Device (BYOD)

- Edinburgh 1:1 Case Study video (XMA): http://vimeo.com/80875246

http://digitallearningteam.org

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