

# The Future of IT in Schools

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HCC



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# In this session...

- How and why is ICT and technology changing learning?
- How should schools be using technology?
- What are the challenges we face?
- A 5 point plan



# A position statement:

- I love learning
- I love to learn about new things
- I believe technology motivates and inspires learning
- I believe in socialised learning and the importance of connectedness
- I believe in traditional learning



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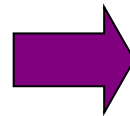




**WE HAVE  
MOVED!**

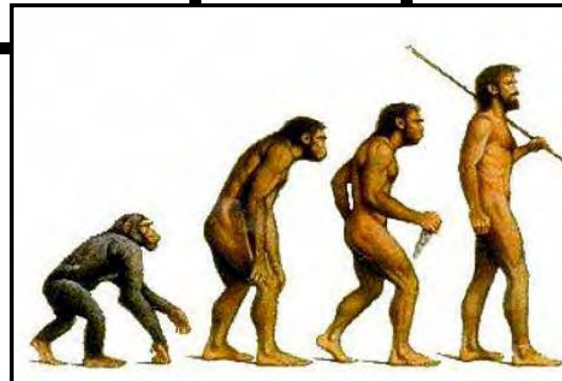
# Web 1.0

**Read**  
**Download**  
**Consumer**  
**Personal**  
**Watch**  
**Static web pages**  
**Locally installed apps**  
**Work on your PC**



# Web 2.0

**Write**  
**Upload**  
**Publisher**  
**Share**  
**Participate**  
**Dynamic web pages**  
**Web based apps**  
**Work online**



# An education renaissance? (How lucky are you???)

“Let’s look at the most powerful kings there have ever been ever, you know the great autocrats or even dictators. In any sense that counts except the power of life over death, I have more power than Louis XVI. I have more power for knowledge and understanding is at my fingertips, and at yours. And I don’t even have to be sat at a computer. I can just carry a device around with me and I have ... You know he had to summon scholars and ask grave questions. So we are immensely empowered. “

Stephen Fry, clever.com, Radio 4 - Analysis



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# YouTube helps man deliver baby

An engineer in Cornwall delivered his baby son after watching a instructional video on YouTube.

Marc Stephens watched the videos as a precaution when his wife Jo started to feel some discomfort.

Four hours later, his wife went into labour and started giving birth before an ambulance could arrive at their home in Redruth.



▶ Marc's wife Jo Stephens, speaking to 5 Live's Victoria Derbyshire: 'He can turn his hand to anything'



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**BBC, 1-5-09**



# Previously in schools.....

- Talked about 'ICT'
- Trained children how to use soft and hardware
- Word processed A LOT
- Taught children how to use PowerPoint..FOR A VERY LONG TIME



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# What about your school/s?

- How has the ICT teaching changed in the last 10 years?
- How are children progressing?
- What do the children enjoy learning?
- Are they building the foundations they need for the future?



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# August 2011



*"I was flabbergasted to learn that today computer science isn't even taught as standard in UK schools," he said. "Your IT curriculum focuses on teaching how to use software, but **gives no insight into how it's made.**"*

*(Eric Schmidt – Google)*



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# November 2011



*"I think Eric Schmidt is right... we're not doing enough to teach the next generation of programmers. One of the things you hear from the businesses here in Tech City is **"I don't just want people who are literate in technology, I want people who want to create programs"**, and I think that's a real wake up call for us in terms of our education system."*



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# OfSTED – December 2011

- OfSTED December 2012
  - Assessment
  - KS4
  - ICT across the curriculum
  - CPD
  - eSafety
  - VLEs
  - Procurement



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# BETT – Michael Gove



- “ICT will remain compulsory at all key stages, and will still be taught at every stage of the curriculum. “
- “The best degrees in computer science are among the most rigorous and respected qualifications in the world. They’re based on one of the most formidable intellectual fields – logic and set theory – and prepare students for immensely rewarding careers and world-changing innovations. But you’d never know that from the current ICT curriculum.”
- “Schools, teachers and industry leaders have all told us that the current curriculum is too off-putting, too demotivating, too dull.”



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# What should children be learning?

- With technology
  - About the world
  - About communication
  - About new skills
- Of technology
  - How does the world use technology?
  - What can it do?
  - How can children use it?



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# With technology

- Using ipads, ipods, computers to learn about other things, such as letter sounds, numbers etc
- A case study...
  - An interest highlighted, reason explained
  - Information and teachers found
  - Skill practiced and developed
  - Reflection – surprising!
  - Learning evolved and retold
- How powerful can this be?



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# At Secondary

- <http://www.behindthescreen.org.uk/>
- University of Hertfordshire / CAS/ Standards and School Effectiveness project:  
[www.thegrid.org.uk/learning/ict/computing/](http://www.thegrid.org.uk/learning/ict/computing/)



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# So what will be the challenges?

- Mobile technologies – learning where and when the curriculum dictates
- Wireless infrastructure – sufficient?
- Support for the long term development of computing – access to computers that you can ‘play with’
- Reliable technology – managed systems?



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# Using technology to communicate of learning and achievement

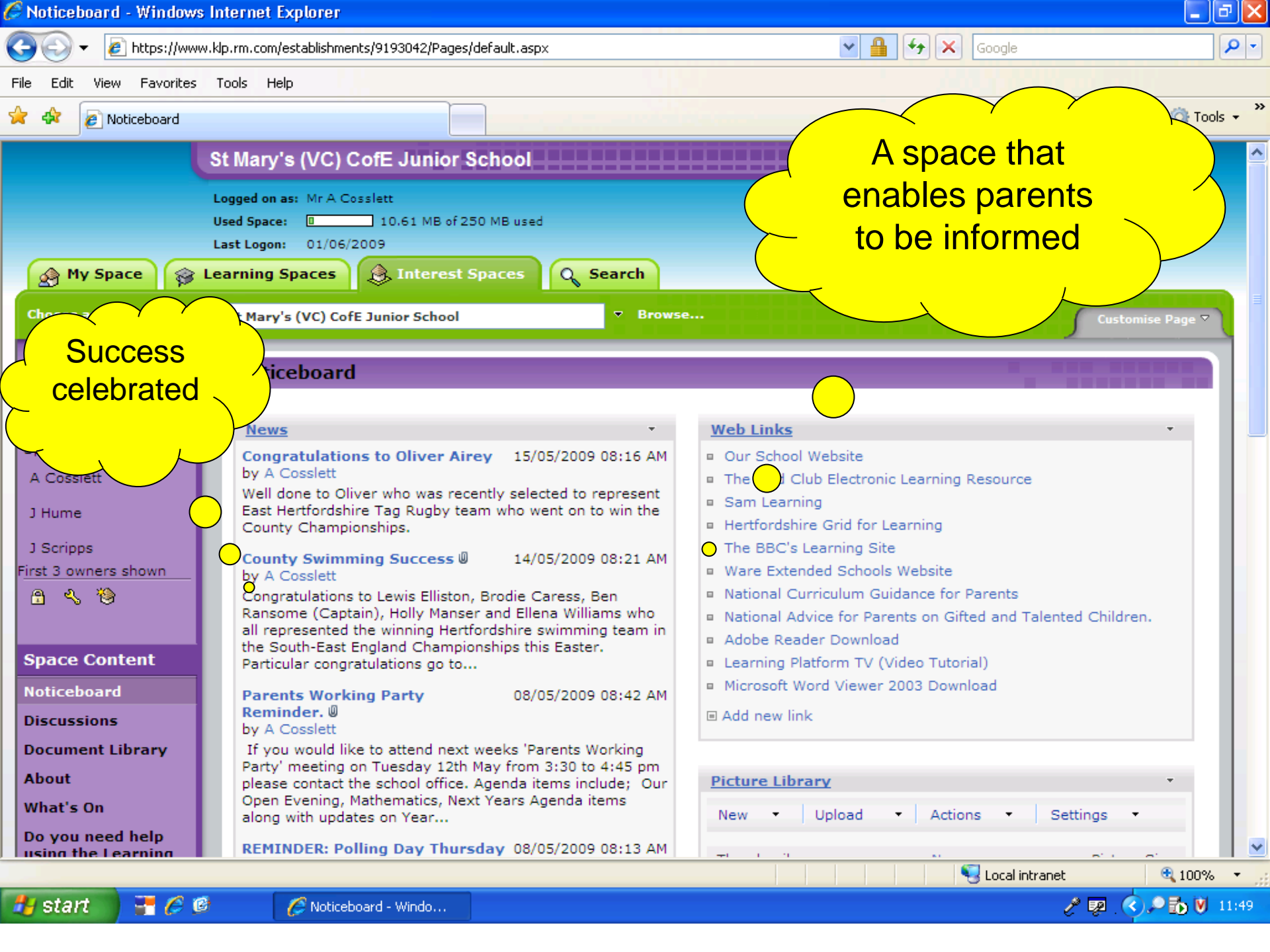
- Learning platforms and VLEs that communicate:
  - Attendance
  - Behaviour
  - Curriculum coverage
  - Assessment data
  - Communications to and from school
  - Learning out of hours
  - Work hand in



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## St Mary's (VC) CofE Junior School

Logged on as: Mr A Cosslett

Used Space:  10.61 MB of 250 MB used

Last Logon: 01/06/2009

- My Space
- Learning Spaces
- Interest Spaces
- Search

A space that enables parents to be informed

Success celebrated

St Mary's (VC) CofE Junior School

### Noticeboard

#### News

**Congratulations to Oliver Airey** 15/05/2009 08:16 AM  
by A Cosslett  
Well done to Oliver who was recently selected to represent East Hertfordshire Tag Rugby team who went on to win the County Championships.

**County Swimming Success** @ 14/05/2009 08:21 AM  
by A Cosslett  
Congratulations to Lewis Elliston, Brodie Caress, Ben Ransome (Captain), Holly Manser and Ellena Williams who all represented the winning Hertfordshire swimming team in the South-East England Championships this Easter. Particular congratulations go to...

**Parents Working Party Reminder.** @ 08/05/2009 08:42 AM  
by A Cosslett  
If you would like to attend next weeks 'Parents Working Party' meeting on Tuesday 12th May from 3:30 to 4:45 pm please contact the school office. Agenda items include; Our Open Evening, Mathematics, Next Years Agenda items along with updates on Year...

**REMINDER: Polling Day Thursday** 08/05/2009 08:13 AM

#### Web Links

- Our School Website
- The Club Electronic Learning Resource
- Sam Learning
- Hertfordshire Grid for Learning
- The BBC's Learning Site
- Ware Extended Schools Website
- National Curriculum Guidance for Parents
- National Advice for Parents on Gifted and Talented Children.
- Adobe Reader Download
- Learning Platform TV (Video Tutorial)
- Microsoft Word Viewer 2003 Download
- Add new link

#### Picture Library

- New
- Upload
- Actions
- Settings

- A Cosslett
- J Hume
- J Scripps
- First 3 owners shown
- Space Content
- Noticeboard
- Discussions
- Document Library
- About
- What's On
- Do you need help using the Learning

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My Space Learning Spaces Interest Spaces Search

Choose an Interest Space: St Mary's (VC) CofE Junior School

### Document Library

St Mary's (VC) CofE Junior School > Document Library

New Upload Actions Settings View: All Documents

Type	Name	Modified	Modified By
Folder	Newsletters	06/10/2008 05:48 PM	KLP\svcwsskppagent
Folder	Policy Documents	06/10/2008 05:48 PM	KLP\svcwsskppagent
Folder	Projects	06/10/2008 05:48 PM	KLP\svcwsskppagent
Document	Childrens_Plan_Executive_Summary	12/12/2007 10:00 AM	A Cosslett
Document	Dates for your diary updated	22/01/2009 02:38 PM	A Cosslett
Document	Every Parent Matters	01/02/2008 01:57 PM	A Cosslett
Document	Letter to parents	19/12/2008 12:14 PM	T Harding
Document	SEF_report Dec 2007	13/12/2007 03:36 PM	A Cosslett
Document	St Mary's VC CofE Junior School - Inspection Report 2006	30/04/2008 12:45 PM	A Cosslett



**St Mary's (VC) CofE Junior School**

Space Owners:

- A Cosslett
- J Hume
- J Scripps

First 3 owners shown

**Space Content**

- Noticeboard
- Discussions
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- Do you need help using the Learning...

# The importance of chatting!

Children in professionals' homes were exposed to an average of more than fifteen hundred more spoken words per hour than children in welfare homes. Over one year, that amounted to a difference of nearly 8 million words, which, by age four, amounted to a total gap of 32 million words. They also found a substantial gap in tone and in the complexity of words being used. They discovered a direct correlation between the intensity of these early verbal experiences and later achievement.

*Hart and Risley study*

So....

Use media to share learning and activities - spark conversation in the home



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### Little Munden C of E Primary

January 14

This morning Olympia class went for a walk around the village looking for different styles of houses. Well done to all the children for reporting back in assembly. Congratulations to everyone who got a celebration sticker for the work they have done this week or for the great attitude they have shown towards their learning. We also send all our best wishes to Mrs Marsh who fell and hurt her foot yesterday. We hope to see you back soon x

Unlike · Comment · Share

5 2



### Little Munden C of E Primary

January 11

#### Sparta Class Victorian Day (23 photos)

Sparta class spent the day learning about and experiencing the school day of a Victorian child. They also had the chance to handle a number of artefacts and find out how they were used. See if you can identify what the items in the photos are.



absence.

Congratulations to the football team who won their match against Puller yesterday 5-2. Thank you to Mr Mallett for all his hard work and enthusiasm.

Hope you all have a good weekend.

Unlike · Comment · Share

4 1



### Little Munden C of E Primary

January 11

Sparta class had a great day today learning about the school life of Victorian children. Take a look at the album and see if you can work out what some of the items they had a chance to handle, were used for!

Like · Comment · Share



**Lucy Kinchin** Well done and thank you to Miss Steed and Mrs Marsh for a well thought out day. Thomas really enjoyed the re-enactment of a Victorian school and was particularly pleased that he did not get caught for being left handed! However he has decided that normal school is far better!

January 12 at 9:50am · Like · 1



Write a comment...



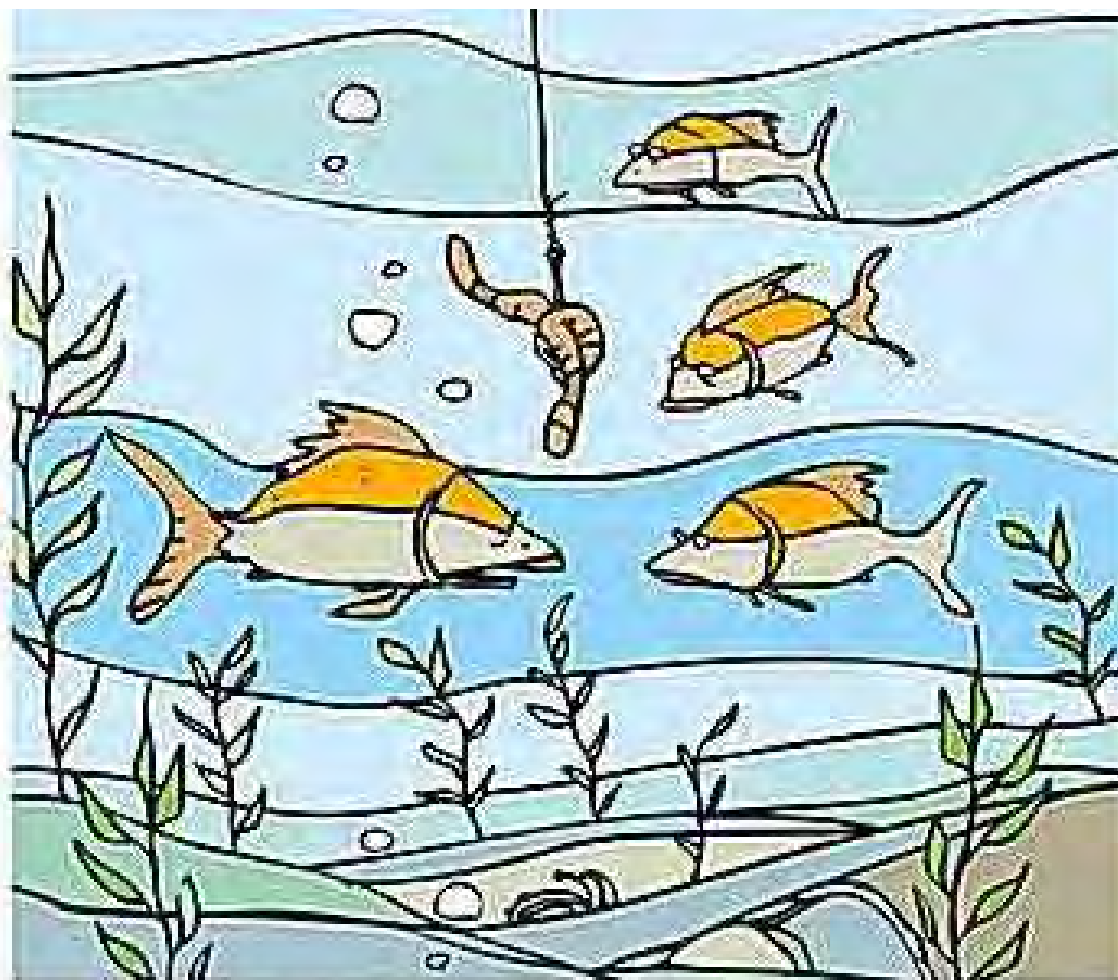
### Little Munden C of E Primary

January 5

Here we are back again, making new year's resolutions and getting stuck in to more learning. Olympia class started the term building houses for the big bad tiger to try to blow down. Marathon class have already got stuck in to story writing and Sparta class have been composing using the laptops. Also, well done to those children from Sparta class who took part in the Sportshall Athletics at Wodson Park this afternoon.







“Sure, it looks good. Too good.  
Trust me, there’s always a catch.”



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# How does your school/ Governing Body reach out to parents?

- Is this logistical?
- Is this learning?
- Is this both?



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Hertfordshire

# eSafety issues in Hertfordshire

## What is happening?

- Bullying – 24 hour
- Incitement
- Sharing of offensive content
- Inappropriate contact
- Uprisings!

## Where, where and how?

- Across all phases
- In all year groups
- By all of the school community
- All of the time
- Across Herts, the UK and beyond
- Using all technologies



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# Teacher suspended for mocking crying four-year-old pupil on Facebook

By CHRIS BROOKE

Last updated at 7:03 PM on 03rd March 2010

[Comments \(173\)](#) | [Add to My Stories](#)

# Facebook bullies: Hundreds of pupils use social networking website to call for headteacher to be sacked

By ANDREW LEVY

Last updated at 3:01 PM on 05th November 2009

# Maths teacher who groomed bullied pupil for sex is jailed

By DAILY MAIL REPORTER

Last updated at 12:34 PM on 29th January 2010

[Comments \(24\)](#) | [Add to My Stories](#)

A maths teacher who groomed a bullied pupil online before having sex with her in a school cupboard has been jailed for 15 months.

David Weedon, 36, contacted the schoolgirl on MSN messenger after she was moved into his tutor group when she self-harmed as a result of severe bullying.

The married father-of-four then encouraged the vulnerable 16-year-old to send lewd emails and had sex with her in a maths cupboard on several occasions.



# Parents hound out the Muslim school secretary they thought was a man

By JAYA NARAIN

Last updated at 12:12 AM on 13th June 2009

[Comments \(27\)](#) | [Add to My Stories](#)

Angry parents hounded a woman out of her job at a Muslim girls school because they believed she was a man.

Shifa Patel, a 28-year-old secretary, was accused of hiding her masculinity beneath a traditional headscarf and robes.

The hate campaign started when photographs of a short-haired Miss Patel wearing a shirt and trousers were spotted on Facebook. They were copied and emailed to dozens of concerned parents as 'proof' that Miss Patel was a man.

***'It's quite simple, say nothing online that you would not have the guts to say to someones face.'***



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# The rise of gaming.....

- What games are most popular with:
  - Key Stage 1
  - Key Stage 2
  - Key Stage 3 and 4
- How are games affecting learning in your school?



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# Support for Parents and Carers

## Mind the Gap – questions you may want to ask your children

- What do you like to do most online?
- Do you play Club Penguin with friends you know or do you play with anyone?
- What do you write on your MoshiMonsters pinboard?
- Do you tell your online friends your secrets or things you do in the playground?
- What is the age rating of the game you are playing?
- The minimum age to be able to open an account on other social networks is 13 years. As you pretend to be and why?
- Do you know your online friends in the real world?

## Mind the Gap – you keep your children safe in the real world. Here are some things you may want to do to help your children 'Stay Safe' in the online world

- Set ground rules and with younger children agree which websites they can visit. Remember these will vary depending upon the ages of your children.
- Agree time limits and regular breaks. Remember letting children play video games just before bedtime may stop them sleeping and have an impact on their learning.
- Find out how to set the parental controls and safe search. Consider buying parental monitoring/ control software for younger children. Remember none of these are 100% effective and supervision is always needed.
- Check the home page of your child/ren's favourite social network, game and so on. This will give you an overview of the website and its suitability.
- Spend 30 minutes watching your child/ren play an online game so that you can see the content and be happy that it is suitable for them.



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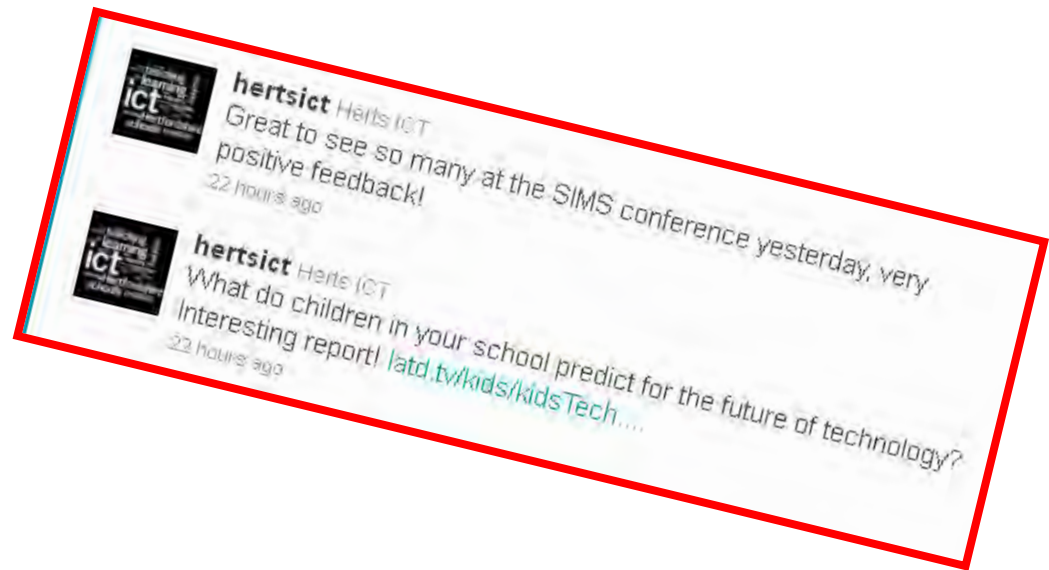


# Keeping you up-to-date

- School Bulletin
- Termly newsletter
- Twitter



- ICT team videos
- Youtube
- Facebook
- HGfL



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# 5 things to do at any school anywhere

- **Investigate** – what are children learning in your school with and of technology?
- **Interview** – talk to staff and pupils informally, how are children progressing as a result of technology in their school?
- **Involve** – share ideas with parents, use electronic media to help learn about learning
- **Invigorate** – follow the lead of children – find worldwide experts about learning and listen/watch them to keep up to date
- **Imagine** – how could you transform learning for children and parents in your school? Does it really need a big budget? Is investment in learning with or of technology?



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*Thanks for listening!*

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