



Further reading and useful web addresses

Example Materials from Foundation Stage to Year 6 – DfES 0315-2004G

Example Materials Foundation Stage – DfES 0348-2004GCDI

Guidance and Support material for HoS providers – DfES/0417/2004

Leadership Team Toolkit – DfES/0369/2004

The Big piCTure – the impact of ICT on pupil attainment, motivation and learning – DfES/0796/2003

Order these free DfES publications and resources via Prolog. Please quote the relevant reference number.

Tel: 0845 602 2260

Fax: 0845 603 3360

Textphone: 0845 605 5560

Online: www.publications.teachernet.gov.uk

Key web addresses

Access to Example Materials online www.standards.dfes.gov.uk/primaryict

Becta – advice on ICT planning and implementation www.ictadvice.org.uk

Becta – ICT Support Network www.becta.org.uk/ictsn

Broadband pilot study – Connecting with broadband: A pilot investigation of broadband technology impacts in schools www.becta.org.uk/research/research.cfm?section=1&id=3304

You can download this publication or order copies online at www.teachernet.gov.uk/publications

Search using ref: DfES/1116/2005

Copies of this publication can also be obtained from:

DfES Publications

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PPFMP/D35/1204/14

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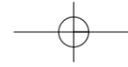
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■ Primary Schools

Learning and teaching using ICT

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Why use ICT in the classroom?

Because technology is an intrinsic part of our everyday lives, and children love to use it to play and learn.

There are many potential benefits to using ICT in teaching and learning:

- ICT used effectively, can raise standards.
- ICT provides new ways for teachers to teach.
- ICT enables teachers to be more creative in their lesson planning, to pool ideas and develop skills with others within the school – as well as through collaboration with other schools.
- ICT can make subjects more accessible to children and is adaptable to different learning styles, broadening their horizons and allowing them to achieve.
- ICT can help children think in a different way and be more creative in their problem-solving.
- ICT can bring lessons to life.

ICT impacts positively on achievement

Research shows that pupils who make frequent use of computers in or out of school enjoy both greater motivation to learn and higher levels of achievement.

In October 2002, the *ImpaCT2*¹ study was published and this independent research found that ICT raised standards in schools. For example, *ImpaCT2* found that in some subjects at Key Stage 2 this can be the equivalent to a whole terms extra progress.

¹ *ImpaCT2 study, DfES, 2002.*

The role of LEAs

Your Local Education Authority plays a key role in ICT planning, procurement and practice.

Successful ICT development in most English schools depends on the support and resources provided by the Local Education Authority (LEA) infrastructure – a combination of leadership, encouragement and support. Most LEAs provide dedicated ICT support centres, a free Web-based service showing schools the range of ICT services available within the LEA.

LEAs, supported by the Primary Strategy, regularly organise events to keep schools updated on the latest initiatives and offer training and access to materials that have been developed to support the use of multimedia resources and ICT in teaching and learning.

Regional Broadband consortiums (RBCs are groups of local LEAs working together to deliver cost-effective broadband connectivity for schools in their region. There are ten RBCs in England and each is working with their member LEAs and schools to agree regional broadband strategies and approaches.

The role of City Learning Centres

The main aim of City Learning Centres (CLCs) is to enhance teaching and learning across the curriculum. Most CLCs are attached to a host school and serve a network of schools. The objective is to improve access to, and use of the latest education technology for children, teachers and the community; increase attainment levels through the use of technology, and act as test beds for innovation.

Computers – advice for new users www.ictadvice.org.uk/new2computers

Curriculum online www.curriculumonline.gov.uk

ICT in schools www.dfes.gov.uk/ictinschools
for information on:
Broadband case studies
Hands on Support
ICT funding (including interactive whiteboards)
ICT strategy

LEAs – role in ICT planning and procurement www.ictadvice.org.uk

National College of School Leadership (NCSL) www.ncsl.org.uk

National Whiteboard Network – resources www.nwnet.org.uk

Strategic Leadership in ICT (SLICT) training www.ncsl.org.uk

Technical support www.becta.org.uk/ntss

Virtual Teacher Centre (VTC) www.vtc.ngfl.gov.uk



- **Leadership Training** Heads can benefit from the Strategic Leadership in ICT course run by the NCSL.
- **National Whiteboard Network** get access to resources to help you use interactive whiteboards in the classroom.
- **Technical Support** without effective technical support teachers and learners cannot get the best from ICT. Advice and guidance is available to help schools.
- **Virtual Teacher Centre (VTC)** the VTC is a service for schools' professionals providing news, support for professional development and the facility to search for resources across the National Grid for Learning (NGfL).

The impact of ICT on teaching is satisfactory or better in 77% of all schools visited, according to an Ofsted report² on the subject.

"ICT resources in schools are now at record levels and compare well with other countries. This is a great achievement that is reaping benefits for pupils and staff alike."

David Bell *Chief Inspector of Schools*

Did you know?

- The average primary school has 32 computers.
- That's one computer for approximately every eight children.
- 63% of primary schools use interactive whiteboards.
- The average number of interactive whiteboards per primary school is two (nearly double the 2003 figure).
- 85% of teachers say they feel confident about the use of ICT.
- Over 99% of primary and secondary schools are connected to the internet.
- Over 60% of primary schools have access to broadband, and we're on target for all schools to have access by 2006.

² *ICT in schools 2004: The impact of government initiatives five years on*

"The positive influence of ICT in schools continues to rise and can no longer be denied."

Ofsted

"Teaching with ICT is terrific. As a teacher and ICT co-ordinator, it's really exciting. Hopefully now, too, we're well past the days when children simply used computers to write up their work."

Sue Sweet *Head of Ashleigh Infant School, Wymondham, Norfolk*

The benefits of broadband

Over 60% of primary schools now have broadband internet access. The latest evaluation evidence demonstrates that broadband is essential in the effective use of ICT.

A series of broadband case studies have been developed by the DfES to showcase some of the ways in which broadband is really making a difference in some schools.

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The *Learning and Teaching with ICT* programme has been developed by the DfES in partnership with a range of experts, including Becta, the NCSL, QCA and Ofsted and the Primary Strategy which supports schools in raising standards across the curriculum.

Here is an overview of the range of help and guidance available:

- **Curriculum Online** an online search service that teachers can use to find, evaluate and buy multimedia resources linked to the teaching of the curriculum in England.
- **eLCs** cash for schools to buy multimedia resources.
- **Example Materials CD-Roms** the Example Material CDs use video clips, lesson outlines and links to resources to show real-life examples of practitioners using ICT in teaching and learning in primary school classrooms. All primary years and core subjects are covered, as well as the six areas of learning in the Foundation stage. See children, teachers, early years practitioners and teaching assistants using a wide range of equipment – laptops and stand alone PCs, interactive whiteboards, digital photography, video and more. You can watch them on DVD or online.
- **Hands on Support** a mentoring scheme offering teachers one-on-one classroom-based support, using your own school equipment.
- **Interactive Whiteboard Scheme** new technologies like interactive whiteboards provide teachers with an effective teaching aid to excite and engage pupils of all ages. Funding is available to schools to help them purchase interactive whiteboards.
- **Leadership Team Toolkit** designed to help your school leadership team – Head, deputy, subject co-ordinators and ICT co-ordinator – get the best out of ICT in your school. The Toolkit can be used to develop and share an ICT vision for a school, evaluate current practice and implement an ICT action plan.