ICT: skills that need to be taught in the Foundation Stage

Luke Pedwell
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What it is...

Children should be given the opportunity to use ICT

☐ In play contexts

☐ Across all areas of the curriculum

☐ Both indoors and out

☐ In role play

☐ Individually, in pairs, in small groups and as a whole group

By the end of Nursery:

The children should learn to use technology safely and respectfully. Children should be confident to safely explore a variety of simple computer programs and ICT devices e.g. *Beebots*, listening post and Digicams

By the end of EYFS:

The children should learn to use the iPads, *Beebots*, listening units safely and respectfully as well as Interactive whiteboards. They would experience a wide range of suitable programs in a variety of subjects to extend and further their learning.

Skills taught and assessed in Nursery

- Use ICT resources with care
- Name parts of the computer e.g. mouse, keyboard, monitor, printer.
- Take a picture with a digital camera or iPad
- Record sound of themselves or partner
- Explore and use remote control toys and simple control equipment.
- Use simple programs to explore sounds
- Left click accurately
- Use a program and App

Skills taught and assessed in Reception

- Use tape recorder to play, stop and rewind

- Swipe, hold and drag when using an iPad

- Click and drag using a mouse

- Show my work in tables, words and pictures

- Share and exchange my ideas with others

- Program a *Beebot* to move forwards and backwards

- Visit different websites to learn about different cultures and beliefs.

- Use ICT to sort and Sequence objects on a screen or interactive whiteboard.

Suggestions for how to evidence this:

- *Charlie Chimp*
- Photographs of *Beebots* in use
- Photographs taken by children
- Conversations with Teacher
- Using iPads and class computers independently

- Children record and play back singing, stories and instructions
- Digital voice recorder
- Talking postcards
- Talking tins

Specific vocabulary:

Program	Swipe
Device	Drag
Mouse	Slide
Screen	App
Sound	Computer
CD	iPad

ICT: skills that need to be taught in KeyStage One

"Computing is a part of daily lives and is as important as English and Maths skills. It is vital pupils have the opportunity to learn about and use technology so they can function well in everyday life. Our vision is for pupils to use ICT safely, effectively and with purpose. They will always know what to do if they feel concerned online ."

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What it is...

In KS1 children will focus on algorithms and how the step by step instructions are implemented allowing digital device to follow a code.

They will experience how simple errors effect the end result and be taught how to spot errors and fix them (debug).

They will feel competent and confident in choosing and using ICT appropriately at the same to being made aware of the risks of online dangers and how best to overcome any problems and where possible prevent them.

Children will find out how to create and read data as well as type and input digital content in a way that is accessible to their peers.

Children will recognise common uses of IT beyond school and understand how they also follow a program and cannot function without being instructed what to do.

By the end of KS1 children should be able to:
- To log on and shut down.
- Log into a website and use in confidently
- Using a mouse or tracker pad to drag
- To have letter/key recognition
- To program Beebots: forward, backwards, turn.
- To save and retrieving work.
- To identify where to go for help and support with concerns about content or contact. (e-Safety)
- Complete units 1 and 2 of e-coding. (*espresso*)
- Take and delete photographs on an iPad
- Recognise sources of ICT outside of school

Specific vocabulary:

Algorithms	Instructions
Programs	Coding
E-safety	Debug
Save	Delete
Load/retrieve	Digital
Present	Personal information

Suggestions for how to evidence this:
- Take photographs and save onto computer by dragging file from memory stick
- Create a simple presentation about e-safety (Y1)
- Create a simple presentation about recent school trip. (Y2)
- Use Bug Club at home and in school and most of its functions
- Write about ICT beyond school and how it follows a program
- Photographs using iPads, these can then be retrieved and deleted
- Photographs of *Beebots* being used along with set of algorithms
- Read algorithms and predict what will happen then adapt them to make something else happen.
- Recording own voices or performances
- E-safety posters made by the children.
- Type letters/stories/instructions.