



Unit: Areas of Learning

Overview of this Unit:

Pupils will develop ICT skills through the Areas of Learning. Pupils will be encouraged to enquire, investigate, and think for themselves. The unit gives pupils the opportunity to experience ICT in the environment, both indoors and outdoors, as well as developing specific ICT skills. It will give opportunities for independent child led learning as well as structured teacher focused sessions. Resources should be readily available as a natural part of investigative play opportunities. ICT should be holistic and integral across the curriculum. Children's ICT skills, knowledge and understanding should be developed through a range of experiences that involve them (i) finding and developing information and ideas, (ii) creating and presenting information and ideas.

Where this Unit fits in:



Personal and Social Development, Well-Being and Cultural Diversity – Children will talk about their experiences; share and show care with equipment, sustain concentration and work with others on a task. ICT will be used to raise awareness of other cultures through videos, music etc. They show awareness of basic safety rules when working with ICT equipment and use Internet/related technologies safely, with support.



Language, Literacy and Communication Skills – Children will continue to develop speaking and listening skills. They will use ICT as a stimulus to develop discussion and decision making skills. Children will develop literacy skills and extend vocabulary through structured use of suitable ICT activities including using text, pictures, sounds and wordbanks to record and communicate thoughts and ideas.



Mathematical Development – Children will use ICT to develop mathematical skills and language through appropriate activities such as counting, ordering, comparison of sizes, shapes, graphs, pictograms and directing a robotic toy for a purpose.



Welsh Language Development — Using a range of stimuli including audio visual material and ICT interactive activities in Welsh, children will begin to develop Welsh language vocabulary as well as speaking and listening skills. They will use ICT as a stimulus and record, listen to and respond to spoken Welsh.



Knowledge and Understanding of the World – They begin to understand that work can be saved on a computer and show a growing familiarity with a computer keyboard and use a variety of devices to record sounds with some assistance. They use ICT appropriately in play.



Physical Development – Children will develop both gross and fine motor skills through the use of a range of ICT devices such as metal detectors, cameras, keyboard, mouse control IWBs, robotic toys etc.



Creative Development – Children will use a range of tools in a graphics package to create pictures and patterns, and create simple musical compositions using a sequence or pattern on a computer.



Scheme of Work for Information Communication Technology

Expectations at the end of this unit:

Personal and Social Development, Well-Being and Cultural Diversity



Most pupils will be able to: talk with confidence about their experiences, begin to work with others and show perseverance to complete tasks.

Some pupils will only be able to: complete tasks with encouragement and support and may find working with others challenging.

Some pupils will also: show awareness of basic safety rules when working with ICT equipment and use Internet/related technologies safely, with support. They talk with confidence about their use of ICT.

Language, Literacy and Communication Skills



Most pupils will be able to: respond orally to a range of multi-media stimuli. They know that words, images and numbers can be displayed in a variety of sizes and give different information. They are beginning to use the computer keyboard to input text.

Some pupils will only be able to: use a computer keyboard to write simple sentences with support

Some pupils will also be able to: record and communicate their thoughts and ideas through structured use of suitable ICT activities including using text, pictures, sounds and wordbanks on a computer and can talk about their experiences and choices.

Mathematical Development



Most pupils will be able to: use resources and software to develop mathematical skills with increasing independence and talk about their choices. They can make a simple graph or pictogram and talk about what it means. They can direct a robotic toy for a purpose.

Some pupils will only be able to: use ICT to develop mathematical skills and understanding with support. They can control a robotic toy.

Some pupils will also be able to: use Internet/related technologies safely, with support to explore and develop mathematical skills. They can use a database to create graphs and interpret the data and are beginning to estimate and make predictions when controlling a robotic toy.

Welsh Language Development



Most pupils will be able to: respond to a range of audio visual material using appropriate Welsh vocabulary and complete simple ICT interactive activities in Welsh. They listen to and respond to spoken/recorded Welsh with growing confidence.

Some pupils will only be able to: complete interactive activities in Welsh with support and show some recognition of Welsh vocabulary.

Some pupils will also be able to: use a variety of ICT devices to record and/or listen to Welsh words or phrases.

Knowledge and Understanding of the World



Most pupils will be able to: input text from a computer keyboard showing a growing awareness of the purpose of specific keys. They use a wordbank and can move images on screen for a purpose and begin to understand that work on a computer can be saved. They use ICT appropriately in their play.

Some pupils will only be able to: use specific keys such as 'Shift' on a keyboard when prompted and usually need help to use ICT devices.

Some pupils will also be able to: input text showing awareness that font size and colour can be changed and can use the 'Shift' key independently to create a capital letter. They use a variety of devices such as sound recorders, cameras etc. with growing confidence and talk about their use.

Physical Development



Most pupils will be able to: use the mouse confidently and use a pen to control the Interactive Whiteboard. They have the dexterity to use a range of ICT devices successfully.

Some pupils will only be able to: use a range of devices with support and will need practice with the mouse.

Some pupils will also be able to: demonstrate good control of fine motor skills when using a broad range of ICT devices.

Creative Development



Most pupils will be able to: draw detailed pictures on the computer, changing brush size and colour, and can create a simple musical composition.

Some pupils will only be able to: use limited tools in a graphics package and can create an unstructured musical composition.

Some pupils will also be able to: use a range of tools including the Undo tool to try things out in a graphics package and use software to create a simple musical composition using a sequence or pattern.