



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; show care with ICT equipment and share and work with others. They work collaboratively to solve problems and demonstrate confidence in making independent choices when using ICT resources. They demonstrate interest in using ICT and persevere to complete tasks. Through the use of ICT they will be given opportunities to learn about 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. They will be encouraged to talk about being safe online.



Language, Literacy and Communication Skills – Children will use digital cameras, sound recorders and use ICT as a stimulus to develop discussion and decision making skills. They will make predictions in an adventure program and understand that decisions made will have consequences. They will talk about their use of ICT and share ideas with others. Children will develop literacy skills and extend vocabulary through structured use of suitable ICT activities. They will use images and/or sounds with text to write sentences to record and communicate their thoughts and ideas. They will learn that computers and the Internet hold large amounts of information and will learn to use menus to find information from appropriate resources.



Mathematical Development – Children will use ICT to develop mathematical skills and use appropriate language through structured activities. They will experiment with shapes, sizes, lines, grids and patterns in a graphics package. They will create and interpret simple graphs and pre-plan a journey for a robotic toy, amending a sequence of instructions. They will make decisions and solve problems to complete a variety of tasks.



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. They will use images and/or sounds with text to write simple sentences.



Knowledge and Understanding of the World – They show an increasing awareness of how ICT is used in the world around them. They can change the font size, colour and style of text and understand that a computer can be used to send and receive messages. They can save and retrieve work on a computer with assistance and show a growing confidence and familiarity with a range of ICT devices and use them appropriately.



Physical Development – Children will develop both gross and fine motor skills through the use of a range of ICT devices such as dance mats, metal detectors, cameras, keyboards, IWBs, robotic toys etc. and respond through dance to music and record physical activities and performances with simple video cameras.



Creative Development – Children will combine tools and effects in a graphics package to create and develop pictures and patterns, and create and evaluate musical compositions and present or perform their tune to others.



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 using ICT and show awareness of basic safety rules when working with equipment. They share and 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: work collaboratively to solve problems and demonstrate confidence in making independent choices when using ICT resources. They are aware of safety rules when working with ICT equipment and show interest in talking about being safe online.

Language, Literacy and Communication Skills



Most pupils will be able to: make predictions in an adventure program and understand that decisions made will have consequences. They will talk about their use of ICT and share ideas with others and respond orally to a range of multi-media stimuli. They will use images combined with text to communicate ideas.

Some pupils will only be able to: use word banks to write simple sentences and need support to include images.

Some pupils will also be able to: use images and/or sounds with text to write sentences to record and communicate their thoughts and ideas. They know that computers and the Internet hold large amounts of information and can use simple menus to find information from appropriate resources.

Mathematical Development



Most pupils will be able to: use resources and software to develop mathematical skills and make decisions and solve problems to complete a variety of tasks. They will create and interpret simple graphs and pre-plan a journey for a robotic toy.

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

Some pupils will also be able to: use a database to create graphs and interpret the data. They are developing estimation skills and can make predictions when controlling a robotic toy. They can collaborate and amend a sequence of instructions.

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 and can enter text to create simple Welsh sentences.

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. They will use images and/or sounds with text to write simple Welsh sentences.

Knowledge and Understanding of the World



Most pupils will be able to: demonstrate an increasing awareness of how ICT is used in the world around them. They can change the font size, colour and style of text and understand that a computer can be used to send and receive messages. They can save their work with assistance.

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: use a range of ICT devices appropriately such as sound recorders, cameras etc. with growing confidence and talk about their use. They can combine images and text and save their work independently.

Physical Development



Most pupils will be able to: demonstrate that 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 may need practice with the mouse and/or keyboard.

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: combine tools and effects in a graphics package to create and develop pictures and patterns, and create and evaluate musical compositions.

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: combine a range of tools and effects to try things out in a graphics package. They can create, evaluate and amend a musical composition and present or perform their tune to others.