

Larks Class - Computing Year Reception & Year one

Title	Online Safety 1.1
Overview	The aim of this unit is to ensure that children have an understanding of how to use
	technology safely, including using individual logins and understanding why it is
	important to log out of programs once used. This unit also introduceschildren to
	using Purple Mash, beginning to have an understanding of having
	ownership of work online.
Knowledge	By the end of this unit, children will be able to understand what personal information
acquisition	is and the importance of keeping it private. They will be able to log in and out of
	Purple Mash safely while following e-safety rules. They will know how to reach adult
	to an adult if they see something worrying or unexpected online. They will understand
	the importance of being kind and polite online.
Vocabulary	Log in, log out, username, avatar, my work, tools, save, notification, topics,password
Key Learning	To understand the importance of keeping personal information private
Objectives	To understand what personal information is
	To be able to login and logout safely
	➤ To follow e-safety rules
	To know to tell an adult if they see something unexpected or worryingonline
	To know why it is important to be kind and polite
SuggestedLearning	Use Hector's World videos to explore online safety
	·
Experiences	Login to Purple Mash
	Create an avatar
	Save work and retrieve work
	Explore games section

Title	Grouping and Sorting 1.2
Overview	This short unit introduces children to sorting and grouping items physically, and the
	idea that this can be done using technology.
Knowledge	Children will have benefited in sorting and grouping in their math's lessons so by the
Acquisition	end of this unit they will be able to also sort and group using technology.
Vocabulary	Sort, group, criteria, technology, organize, retrieve
Key Learning	Use technology purposefully to create, organise, store, manipulateand
Objectives	retrieve digital content
	I can sort sound, pictures and text.
	I can name, save and find my work
Suggested	Sort a range of physical items according to different criteria
Learning Experiences	Sort items on a computer according to different criteria



Title	Pictograms 1.3
Overview	This unit aims that children will understand how data can be represented in picture form. Children will be involved in collecting class data and use this to create a pictogram.
Knowledge	By the end of this unit children will understand that data can be represented in picture
Acquisition	form. They will have collected class data and had experience of creating a pictogram.
Vocabulary	Pictogram, data, collate, collect, results
Key Learning	To understand that data can be represented by a picture
Objectives	To contribute to a class pictogram
	To use a pictogram to record results of an experiment
	I can change content on a file such as text, sound and images
	To discuss what a pictogram shows
SuggestedLearning	Discuss and illustrate methods of travelling to school
Experiences	Use illustrations to create a class pictogram
	Roll a dice 20 times and record the results in a pictogram

Title	Lego Builders 1.4
Overview	This unit emphasises the importance of following instructions, considering
	how the order of instructions affects the result. Children will follow and create simple
	instructions on a computer.
Knowledge	By the end of this unit children will understand the importance of following instructions.
Acquisition	They will have completed various tasks such as painting a bird, making a sandwich,
	following the instructions correctly to create the end result accurately.
Vocabulary	Instruction, program, algorithm, debug, computer
Key Learning	> To understand the importance of following instructions in order to
Objectives	achieve a desired result
	To know an algorithm is a precise, step-by-step set of instructions
	To follow and create simple instructions on a computer (and to knowan
	algorithm written on a computer is called a program)
	To know that correcting errors on a program is called debugging
SuggestedLearning	Follow instructions to build a simple Lego model
Experiences	Use BeeBots to follow and create simple instructions on a computer
	Organise instructions for a simple recipe and find out what happens if the precise order is not followed

Title	Maze explorers 1.5	
Overview	This unit will allow children to use the functionality of direction keys by exploring	
	mazes on a computer program. They will create and debug a set of instructions	
	(algorithm) using direction keys. They will have the opportunity to	
	set challenges for each other.	
Knowledge	By the end of this unit children will be more confident using the direction keys having	
Acquisition	explored mazes on a computer program. They will have had experience of creating	
	and debugging a set of instructions using the direction keys. They will understand the	
	term 'algorithm' as a set of instructions.	
Vocabulary	Direction, challenge, arrow, undo, rewind, forward, backwards, left turn, right turn,	
	debug, instruction, algorithm	
Key Learning	➤ To be able to use direction keys	
Objectives	To understand how to create and debug a set of instructions	
	(algorithm)	
	To set challenges for others	
	I can name, save and find my work	
SuggestedLearning	Use direction keys in 2Go to complete mazes	
Experiences	Add units of measurement in 2Go Challenge 2	
	Change background images on their challenges	
	Complete challenges set by others on 2Do	

Geat Wheinethan

Title	Animated Story Books 1.6
Overview	This unit introduces children to e-books, they will explore the differences between e-books and traditional books. Children will have the opportunity to create their own story and learn how to save their work in order to add more features. They will then share their stories.
Knowledge Acquisition	By the end of this unit children will understand the difference between a traditional book and an e-book. They will have created their own e-book and learnt how to add animations and sound.
Vocabulary	e-book, save, animation, sound, voice recording, enhance, copy, paste
Key Learning	To be introduced to e-books.
Objectives	To create a story using 2Create.
	To add features to a story including animation and voice recordings.
	To be able to save their work, re-open and edit.
	I can add sound, pictures and text to a program such as 2Create a Story
	I can name, save and find my work
SuggestedLearning	Create their own story using drawing tools to create a picture.
Experiences	Add animation to a picture.
	Add sound to a picture.
	Share their storybook with the class.

Title	Coding 1.7
Overview	This unit of work introduces children to coding and what that means in computing. Children will begin to understand that computers need clear precise instructions in order to make something happen. Children will have the opportunity to create a program using 2Code. They will then explore how they can add different characters, objects and backgrounds and how they can command the computer through using code to enable the characters to move.
Knowledge Acquisition	By the end of this unit children will start to understand what is meant by the word 'coding' in computing. They will know that in order for computers to make something happen they need clear precise instructions. Children will have experienced using the program 2code. They will have learnt how to add characters, objects and backgrounds and how to make the characters move.
Vocabulary	Instruction, coding, program, objects, characters, action, command, design
Key Learning	To understand what coding means in computing.
Objectives	To use 2Code to create a simple program.
	To use Design Mode to add and change backgrounds and characters.
	To use code blocks and play and stop key to make characters move.
	To use collision detection to make objects perform actions.
	I can explain that an algorithm is a set of instructions.
	I know that an algorithm written for a computer is called a program.
	> I can work out what is wrong when the steps are out of order in instructions.
SuggestedLearning	Practice following instructions, children can practice giving each other clear
Experiences	instructions and what happens if the instructions are not precise.
	Use design mode to add backgrounds and characters.
	 Use 2Code to write a program to enable characters to move.
	Use collision detection to make characters interact.
	 Program a sound to play when the characters collide.
	I can try and fix my code if it isn't working properly.

at Whelneth

Title	Spreadsheets 1.8
Overview	Children will be introduced to spreadsheets and allowed time to investigate why we use spreadsheets. Children will learn how to enter data onto a spreadsheet and be taught key vocabulary such as column, row, cells. They will also have the opportunity to add images and count these.
Knowledge	By the end of this unit children will have started to investigate using spreadsheets.
Acquisition	They will begin to enter data onto a spreadsheet and know the vocabulary associated with spreadsheets such as column, row and cells. Children will be familiar with how to add images and count these.
Vocabulary	Spreadsheet, row, column, arrow key, backspace key, delete key, lock tool,cells,
	clipart, speak tool, count tool, move cell tool.

	C	
Key Learning	To know what a spreadsheet looks like and why we use them.	E Primi
Objectives	To enter data onto a spreadsheet.	
	To add images to a spreadsheet.	
	To use the 'speak' and 'count' tools in 2Calculate to count items.	
	I can change content on a file such as text, sound and images	
SuggestedLearning	Create a spreadsheet for a class picnic and list all the things we needand	
Experiences	how many of each.	
	Create their own zoo by adding images to a spreadsheet.	
	Use the 'speak' and 'count' tools to count the animals.	
	I can name, save and find my work	

Geat Whelneth

Title	Technology outside school 1.9
Overview	This short unit allows children to explore what is meant by 'technology' and it's
	uses within and outside of school.
Knowledge	By the end of this unit children will understand the term 'technology' and its uses within
Acquisition	and outside of school.
Vocabulary	Technology
Key Learning	To understand what 'technology' means.
Objectives	To find examples of technology used outside of school.
	To record examples of technology used outside of school.
SuggestedLearning	Go on a walk around the local community and find examples of were
Experiences	technology is used outside of school.
	Record examples of technology used outside of school.