## Aldersbrook Primary School - Progression in Computing Skills

Strand	Nursery	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	Understanding the World	Understanding the World	I can identify different types of technology	I can recognise the uses and features of technology	I can explain how digital devices function	I can describe how networks physically connect to other networks	I can explain that computers can be connected together to	I can identify how to use a search engine
Technology in our Lives	ELG: Past and Present  Talk about the lives of the people around them and their roles in society;	ELG: Past and Present  Talk about the lives of the people around them and their roles in society;	I can identify a computer and its main parts  I can use a mouse in different ways  I can use a keyboard to type on a computer  I can use a keyboard to edit text  I can create rules for using technology responsibly	I can identify the uses of technology in the school I can identify technology beyond school I can explain how technology helps us I can explain how to use technology safely I can recognise that choices are made when using technology	I can identify input and output devices  I can recognise how digital devices can change the way that we work  I can explain how a computer network can be used to share information  I can explore how digital devices can be connected  I can recognise the physical components of a network	I can recognise how networked devices make up the internet  I can outline how websites can be shared via the World Wide Web (WWW)  I can describe how content can be added and accessed on the World Wide Web (WWW)  I can recognise how the content of the WWW is created by people  I can evaluate the consequences of	form systems  I can recognise the role of computer systems in our lives  I can recognise how information is transferred over the internet  I can explain how sharing information online lets people in different places work together  I can contribute to a shared project online  I can evaluate different ways of working together	I can describe how search engines select results  I can explain how search results are ranked  I can recognise why the order of results is important, and to whom  I can recognise how we communicate using technology  I can evaluate different methods of online communication
Multimedia A	Physical Development  ELG: Fine Motor Skills  - Use a range of small tools, including scissors, paint brushes and cutlery;  Expressive Arts and Design  ELG: Creating with Materials  - Safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function;	Physical Development  ELG: Fine Motor Skills - Use a range of small tools, including scissors, paint brushes and cutlery;  Expressive Arts and Design  ELG: Creating with Materials - Safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function;	I can describe what different freehand tools do I can use the shape tool and the line tools I can make careful choices when painting a digital picture I can explain why I chose the tools I used I can use a computer on my own to paint a picture I can compare painting a picture on a computer and on paper	I can use a digital device to take a photograph  I can make choices when taking a photograph  I can describe what makes a good photograph  I can decide how photographs can be improved  I can use tools to change an image  I can recognise that photos can be changed	I can explain that animation is a sequence of drawings or photographs  I can relate animated movement with a sequence of images  I can plan an animation  I can identify the need to work consistently and carefully  I can review and improve an animation  I can evaluate the impact of adding other media to an animation	unreliable content I can identify that sound can be digitally recorded: I can use a digital device to record sound: I can explain that a digital recording is stored as a file: I can explain that audio can be changed through editing: I can show that different types of audio can be combined and played together: I can evaluate editing choices made:	online I can identify that drawing tools can be used to produce different outcomes I can create a vector drawing by combining shapes I can use tools to achieve a desired effect I can recognise that vector drawings consist of layers I can group objects to make them easier to work with I can evaluate my vector drawing	I can use a computer to create and manipulate three-dimensional (3D) digital objects  I can compare working digitally with 2D and 3D graphics  I can construct a digital 3D model of a physical object  I can identify that physical objects can be broken down into a collection of 3D shapes  I can design a digital model by combining 3D objects  I can develop and improve a digital 3D model



	Physical	Physical	I can use a computer to	I can say how music can	I can recognise how	I can explain that digital	I can explain what makes	I can review an existing
	Development	Development	write	make us feel	text and images convey information	images can be changed	a video effective	website and consider its structure
	ELG: Fine Motor	ELG: Fine Motor Skills	I can add and remove text	I can identify that there		I can change the	I can use a digital device	
	Skills	Use a range of small	on a computer	are patterns in music	I can recognise that text and layout can be	composition of an image	to record video	I can plan the features of a web page
	Use a range of	tools, including	I can identify that the look	I can describe how music	edited	I can describe how images	I can capture video using	a waa paga
	small tools,	scissors, paint brushes	of text can be changed on	can be used in different		can be changed for	a range of techniques	I can recognise the need
Multimedia B	including scissors,	and cutlery;	a computer	ways	I can choose	different uses		to preview pages
	paint brushes				appropriate page		I can create a storyboard	
	and cutlery;	Expressive Arts and	I can make careful choices	I can show how music is	settings	I can make good choices	·	I can outline the need for
	Francisco Auto	Design	when changing text	made from a series of	I can add content to a	when selecting different	I can identify that video	a navigation path
Φ	Expressive Arts	ELG: Creating with	I can explain why I used	notes		tools	can be improved through	I can consider the
$\equiv$	and Design	•	1	I can create music for a	desktop publishing		reshooting and editing	
三	ELC: Croating	Materials	the tools that I chose		publication	I can recognise that not all	I can consider the impact	ownership and use of
	ELG: Creating	Safely use and	Logn compare tuning on a	purpose	I can consider how	images are real	of the choices made	images (copyright)
$\geq$	with Materials	explore a variety of	I can compare typing on a computer to writing on	I can review and refine our	different layouts can	I can evaluate how	when making and sharing	I can recognise the
	Cafalyuna and	materials, tools and			1			_
	Safely use and explore a variety	techniques,	paper	computer work	suit different purposes	changes can improve an	a video	implications of linking to content owned by other
	of materials, tools	experimenting with			I can consider the	image		people
	and techniques,	colour, design,			benefits of desktop			
	experimenting	texture, form and			publishing			
	with colour,	function;			Poblishing			
	design, texture,	Toricilori,						
	form and							
	function;							
	Mathematics	Mathematics	I can label objects	I can recognise that we	I can create questions	I can explain that data	I can use a form to record	I can identify questions
			,	can count and compare	with yes/no answers	gathered over time can be	information	which can be answered
	ELG: Numerical	ELG: Numerical	I can identify that objects	objects using tally charts		used to answer questions		using data
	Patterns	Patterns	can be counted		I can identify the object		I can compare paper and	
				I can recognise that	attributes needed to	I can use a digital device	computer-based	I can explain that objects
	Verbally count	Verbally count	I can describe objects in	objects can be	collect relevant data	to collect data	databases	can be described using
	beyond 20,	beyond 20,	different ways	represented as pictures		automatically		data
	recognising the	recognising the			I can create a		I can outline how grouping	l
	pattern of the	pattern of the	I can count objects with	I can create a pictogram	branching database	I can explain that a data	and then sorting data	I can explain that
	counting system;	counting system;	the same properties		Logra ovalgia vyby it is	logger collects 'data	allows us to answer	formulas can be used to produce calculated
	Compare	Compare quantities	I can compare groups of	I can select objects by attribute and make	I can explain why it is helpful for a database	points' from sensors over time	questions	data
D	quantities up to	up to 10 in different	objects	comparisons	to be well structured	IIIIe	I can explain that tools	l dala
ata	10 in different	contexts, recognising	Objects	Compansons	10 be well shochded	I can use data collected	can be used to select	I can apply formulas to
DO	contexts,	when one quantity is	I can answer questions	I can recognise that	I can identify objects	over a long duration to find	specific data	data, including
	recognising when	greater than, less	about groups of objects	people can be described	using a branching	information	specific data	duplicating
$\mathcal{O}$	one quantity is	than or the same as		by attributes	database		I can explain that	
≟	greater than, less	the other quantity;		, c		I can identify the data	computer programs can	I can create a
ည	than or the same	,,		I can explain that we can	I can compare the	needed to answer	be used to compare data	spreadsheet to plan an
Z Z	as the other	Explore and represent		present information using	information shown in a	questions	visually	event
Handling	quantity;	patterns within		a computer	pictogram with a	·	,	
		numbers up to 10,			branching database	I can use collected data to	I can apply my knowledge	I can choose suitable
	Explore and	including evens and				answer questions	of a database to ask and	ways to present data
	represent	odds, double facts					answer real-world	
	patterns within	and how quantities					questions	
	numbers up to	can be distributed						
	10, including	equally.						
	evens and odds,							
	double facts and							
	how quantities							
	can be							
	distributed							
	equally.	1	<u> </u>	<u>l</u>	1	1	L	<u> </u>



	Expressive Arts	Expressive Arts and	I can explain what a given	I can describe a series of	I can explore a new	I can identify that	I can control a simple	I can define a 'variable'
	and Design	Design	command will do	instructions as a sequence	programming	accuracy in programming	circuit connected to a	as something that is
	una besign	Design	Communa Will do	mismochions as a sequence	environment	is important	computer	changeable
	ELG: Being	ELG: Being	I can act out a given word	I can explain what				0 1 1 1
	Imaginative and	Imaginative and		happens when we	I can identify that	I can create a program in	I can write a program that	I can explain why a
	Expressive	Expressive	I can combine forwards	change the order of	commands have an	a text-based language	includes count-controlled	variable is used in a
			and backwards	instructions	outcome		loops	program
⋖	Invent, adapt	Invent, adapt and	commands to make a			I can explain what 'repeat'		
	and recount narratives and	recount narratives	sequence	I can use logical reasoning	I can explain that a program has a start	means	I can explain that a loop	I can choose how to
Ω̈́	stories with peers	and stories with peers and their teacher;	I can combine four	to predict the outcome of a program (series of	program has a start	I can modify a count-	can stop when a condition is met	improve a game by using variables
;	and their	and meir leacher,	direction commands to	commands)	I can recognise that a	controlled loop to produce	Condition is the	Using variables
Π	teacher;		make sequences	Communation	sequence of	a given outcome	I can explain that a loop	I can design a project
Programming	,			I can explain that	commands can have		can be used to	that builds on a given
<u> </u>			I can plan a simple	programming projects can	an order	I can decompose a task	repeatedly check whether	example
Ŏ			program	have code and artwork		into small steps	a condition has been met	
Pr					I can change the			I can use my design to
			I can find more than one	I can design an algorithm	appearance of my	I can create a program that uses count-controlled	I can design a physical	create a project
			solution to a problem	I can create and debug a	project	loops to produce a given	project that includes selection	I can evaluate my
				program that I have	I can create a project	outcome	3010011	project
				written	from a task description		I can create a program	[p. 6]6 G.
					· ·		that controls a physical	
							computing project	
	Expressive Arts	Expressive Arts and	I can choose a command	I can explain that a	I can explain how a	I can develop the use of	I can explain how	I can create a program
	and Design	Design	for a given purpose	sequence of commands	sprite moves in an	count-controlled loops in a	selection is used in	to run on a controllable
	<b>3</b>			has a start	existing project	different programming	computer programs	device
	ELG: Being	ELG: Being	I can show that a series of			environment		
	Imaginative and	Imaginative and	commands can be joined	I can explain that a	I can create a program		I can relate that a	I can explain that
	Expressive	Expressive	together	sequence of commands	to move a sprite in four	I can explain that in	conditional statement	selection can control the
~	lay and and and	lavont adout and	Loop identify the offeet of	has an outcome	directions	programming there are	connects a condition to	flow of a program
) B	Invent, adapt and recount	Invent, adapt and recount narratives	I can identify the effect of changing a value	I can create a program	I can adapt a program	infinite loops and count- controlled loops	an outcome	I can update a variable
ing	narratives and	and stories with peers	Changing a value	using a given design	to a new context		I can explain how	with a user input
	stories with peers	and their teacher;	I can explain that each			I can develop a design	selection directs the flow	Will a cool in por
Programm	and their		sprite has its own	I can change a given	I can develop my	that includes two or more	of a program	I can use an conditional
Z	teacher;		instructions	design	program by adding	loops which run at the		statement to compare a
) JL			1		features	same time	I can design a program	variable to a value
$O_{C}$			I can design the parts of a	I can create a program			which uses selection	
) L			project	using my own design	I can identify and fix bugs in a program	I can modify an infinite loop in a given program	I can create a program	I can design a project that uses inputs and
			I can use my algorithm to	To decide how my project		100p    1 a giveri program	which uses selection	outputs on a controllable
			create a program	can be improved	I can design and create	I can design a project that		device
			12.10.11	12.2.2.2	a maze-based	includes repetition	I can evaluate my	
					challenge	·	program	I can develop a program
						I can create a project that		to use inputs and outputs
						includes repetition		on a controllable device
		l	1	i e	1	İ	1	1



	Personal, Social	Personal, Social and	I can talk about why it's	I can talk about why it is	I can talk about what	I can choose a secure	I protect my password and	I protect my password
	and Emotional	Emotional	important to be kind and	important to be kind and	makes a secure	password when I am using	other personal	and other personal
	Development	Development	polite.	polite online and in real	password and why they	a website	information.	information.
				life.	are important			
	ELG: Self-	ELG: Self-Regulation,	I can tell an adult when I			I can use the safety	I can explain why I need	I can explain the
	Regulation,	Managing Self,	see something	I can describe the things	I can protect my	features of websites as well	to protect myself and my	consequences of sharing
	Managing Self,	Building Relationships,	unexpected of worrying	that happen online that I	personal information	as reporting concerns to	friends and the best ways	too much information
	Building		online.	must tell an adult about.	when I do different	an adult.	to do this, including	about myself online.
	Relationships,				things online.		reporting concerns to an	
			I can recognise an age	I know that not everyone is	1	I know that anything I post	adult.	I support my friends to
			appropriate website.	who they say they are on	I can use the safety	online can be seen by		protect themselves and
			1	the Internet.	features of a websites	others.	I know that anything I post	make good choices
			I can tell you what	1	as well as reporting		online can be seen, used	online, including
$\geq$			personal information is.	I can explain why I need	concerns to an adult	I can comment positively	and may affect others. I	reporting concerns to an
$\overline{\Phi}$				to keep my password and		and respectfully online.	can talk about the	adult.
αf				personal information	I can recognise		dangers of spending too	Loon ovalain the
Š				private.	websites and games	I can help my friends make	long online or playing a	I can explain the
E-Safety				I can talk about why I	appropriate for my age.	good choices about the	game.	consequences of spending too much time
				should go online for a short	I can make good	time they spend online.	I know which resources on	online or on a game.
				amount of time.	choices about how	I can talk about why I	the Internet I can	offiline of off a garrie.
				difficultion lime.	long I spend online.	need to ask a trusted adult	download and use.	I can explain the
					long rapend or line.	before downloading files	download and osc.	consequences to myself
					I can ask an adult	and from the Internet.	I can discuss the	and others of not
					before downloading		importance of choosing	communicating kindly
					files and games from		an age appropriate	and respectfully.
					the Internet.		website or game.	
							and the second of games	I protect my computer or
							I can explain why I need	device from harm on the
							to protect my computer or	Internet
							device from harm	

