Intent	Our children at Alderman Cogan's CE Primary Academy access a broad and balanced enriching comp Alderman Cogan's school: To make sure the curriculum is implemented and impact is monitored successfully. To make sure teachers use assessment to inform the sequencing of steps in the subject. To make sure teachers are using pre and post assessments to evaluate pupils' background knowledge To make sure pupils develop their knowledge and understanding in logical steps To make sure there is coverage across the curriculum. To ensure any CPD requirements are taken into account and a plan put in place. To make sure teachers have strong subject knowledge and pupils are drawing on knowledge when ans To ensure that knowledge and skills are consistently embedded and that there is progression across ye
Substantive Knowledge in Computing	By the end of KS2, children will know how different technology is used in our lives; they will have develops will understand the basic principles of programming and coding and they will know how to stay safe using the basic principles of programming and coding and they will know how to stay safe using the basic principles of programming and coding and they will know how to stay safe using the basic principles of programming and coding and they will know how to stay safe using the basic principles of programming and coding and they will know how to stay safe using the basic principles of programming and coding and they will know how to stay safe using the basic principles of programming and coding and the basic principles are started by the basic principles of programming and coding and the basic principles are started by the basic principles of programming and coding and the basic principles are started by the basic
Disciplinary Knowledge in Computing	Children experience and discuss the different types of technology in our lives including VR, iPads and I develop Digital Literacy knowledge by primarily using Chromebook technology across the curriculum. T Slides, Docs, Sheets, Sites and Drawings to create and edit their creations; they can access application creativity such as FlipGrid and SeeSaw; they can programme Bebots and access coding applications a engage in workshops and discussions about staying safe when using technology

EYFS Building the foundations for Computing										
Nursery										
Computing plays a part throughout every area of the EYFS curriculum. Through developing their Personal, Social and Emotional Development , Communication and Language, Expressive Arts and Design , Physical Development and Understanding of the World children build the foundations they need to succeed in Key Stage One, when they access the National Curriculum.										
e-Safety	Programming	Digital Literacy	Technology in our lives							
Know that the internet is not always safe and appropriate (PSED)	Increasing follow rules and understand why they are important. (PSED, C&L) Use the touch screen smart board and iPads for simple drawing grames (PHY)	Develop their small motor skills so that they can use a range of devices to make marks and express (PD)	Begin to talk about how we use technology and what it is for (C&L) Show some resilience when exploring and using technology in our classroom. (PSED)							



outing curriculum. Our Intent at

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swering subject-specific questions. ear groups and key stages.

loped knowledge of Digital Literacy; they sing the internet.

Interactive Whiteboards. They will They are able to use G-suite to create ons to enhance their learning and and sites such as CS First and they can



EYFS Building the foundations for Computing

Reception

Computing plays a part throughout every area of the EYFS curriculum. Through developing their **Personal, Social and Emotional Development, Communication and Language, Expressive Arts and Design**, **Physical Development** and **Understanding of the World** children build the foundations they need to succeed in Key Stage One, when they access the National Curriculum.

e-Safety	Programming	Digital Literacy	Technology in our lives
I know and talk about how we can stay safe and support our overall health and wellbeing, including sensible amounts of 'screen time'. (PSED, PHY)	I know and can explain reasons for rules. (PSED, C&L)	Explore, use and refine a variety of artistic effects of technological devices to express their ideas and feelings. (EAD)	Talk about how we use technology and what it is for. (C&L) Explore how things work including: IWBs, Beebots, chrome books Show resilience when continue to develop further use of technology in the classroom (PSED)

	Ebor Progression of Knowledge, Skills & Vocabulary - Strand Progression														
Control Systems															
FS1		FS2		Year 1		Year 2		Year 3		Year 4		Year 5		Year 6	
Sticky Knowledg e	Correspo nding Skill	Sticky Knowledge	Correspo nding SKill	STICKY Knowledg e	Correspon ding skill	STICKY Knowledg e	Correspon ding skill	STICKY Knowledg e	Correspon ding skill	STICKY Knowledge	Correspondi ng skill	STICKY Knowledge	Correspondi ng skill	STICKY Knowledge	Correspond ing skill

Know how to use a battery operated toy (car)	To be able to control a battery operated toy: move forwards, backwards	Know how to program a programm able toy	To move a toy forwards, backward s, left and right	Understan d what algorithm s are (& how they are implemen ted as programs on a digital device)	Write a simple program (including unplugged/ plugged)	Understa nd how we can use logical reasoning to predict the behaviour of a simple program.	Use logical reasoning to predict the behaviour of a simple program	Understan d how programs can run using various forms of input and output (e.g. Bee bots/ micro bits).	Use various forms of input and output.	Understand how to break programs down into smaller parts (decompositi on) and why that is useful.	Use decompositio n (breaking things down) to solve problems linked to programs.	Understand how sequencing can be used within programs.	Use sequencing effectively within programs.	Understand how variables can impact programs.	Use variables purposefully within programs to achieve specific goals.	
Know how to put batteries in lights	To be able to put batteries in battery powered lights	Know how to complete a simple computer programm e/app	To complete simple computer games, apps on the IWB, ipad, chromebo ok	Understan d that programs need precise instructio ns.	Write a simple program (which follows precise instructions)	Understa nd what debuggin g is and how it affects how a program runs.	Identify and debug a simple program.	Understan d how programs are used to control everyday devices. (e.g. toys, drones, traffic lights etc.)	Create a program which can control/repli cate everyday/re al world devices. (e.g. toy/traffic lights).	Understand how to detect and correct errors in xand programs (for various purposes).	Use logical reasoning to detect and correct errors in algorithms and programs (for various purposes).	Understand how repetition (loops) can be used within programs.	Use repetition (loops) effectively within programs.	Understand how selection can impact a program.	Use selection purposefully within programs.	
								Vocabula	ary							
Batteries, fo backwards,	rwards, lights	Forwards, ba left, right, but programme, a chromebook	ckwards, tons, app,	Algorithms, move, precis instructions.	rogrammes, (As before +) Logical, e reasoning, predict, debug,			(As before +) Create, specific, goals, sequence, input and output. (As before +) decompose, control, design, write, detect, correct		ecompose, write, detect,	(As before +) Combine, repetition, sequence		(As before +) Combine, selection, variables, purpose, impact			
								Information Te	<u>chnology</u>							
F	S1	FS	FS2		Year 1		Year 2		Year 3		Year 4		Year 5		Year 6	
Know some types of technolog y	Identify technology such as tv, tablet	Know the uses of technology	Identify the uses of technolog y such as tablet, tv	STICKY Knowledg e	Correspon ding skill	STICKY Knowledg e	Correspon ding skill	STICKY Knowledg e	Correspon ding skill	STICKY Knowledge	Correspondi ng skill	STICKY Knowledge	Correspondi ng skill	STICKY Knowledge	Correspond ing skill	
Know where informatio n comes from	Begin to identify non-fiction texts such as books, leaflets	Know that informatio n comes from a variety of sources	Identify sources of informatio n: books, leaflets, letters, tv (news), internet	Understan d how informatio n technolog y beyond school can help us.	Recognise common uses of information technology beyond school (in the real world).	Understa nd how informati on technolog y is used within school to help us.	Recognise common uses of information technology within school.	Understan d how software can be used to collect and present data.	Select, use and combine a variety of softwares to accomplish given goals (collecting and presenting data/inform ation)	Understand how the internet and the world wide web can provide opportunities for collaboration and communicati on.	Collaborate and communicate effectively for a specific purpose.	Understand how software can be used to analyse and evaluate data.	Select, use and combine a variety of softwares to accomplish given goals (analyse and evaluate data/informati on)	Understand the difference between the internet and the world wide web and what they do.	Identify the parts within the schools computer network (eg. servers, router, ports)	

				Understan d how and why digital content can be changed.	Use technology purposefull y to change pre-made digital content.	Understa nd how we can use technolog y to create, organise, store and retrieve digital content.	Use technology purposefull y to create, organise, store and retrieve digital content.	Understan d how to use search technologi es effectively.	Use search technologie s effectively.	To appreciate how results are selected and ranked using search technologies.	Use filters to find specific information.	To understand how we can evaluate digital content based on reliability and authenticity.	Evaluate digital content.	To understand what databases are and how they are used to store information.	Select, use and combine a variety of software to create a database for a specific goal.
TV, tablet, co	omputer, books.	Computer, T	V, tablet,	Information	technology,	(As before -	+) Organise, e. retrieve.	(As before +)) Collect, ect. combine.	Vocabulary (As before +) w collaborate, cor	orld wide web, nmunicate.	(As before +) a evaluate, digita	nalyse, I content.	(As before +) compare,	
leaflets	information, books, internet, leaflets, Co leaflets non-fiction/information, ch news sci Na wid tills		chromebook mouse, touc keyboard, w scroll, type, Names of de wider world tills, cashpoi	e, tablet, ebpad, ebsite, click, enter, digital evices in the - fridge, TV, int etc.	create, store, retrieve. Names of devices within school - printer, interactive whiteboard etc.		present, select, combine, software, data, internet, search, search engine		collaborate, communicate, results, rank, filters, specific		evaluate, digital content, reliability, authenticity		computer network, router, server, databases, storage, The Cloud		
								Digital Lite	eracy						
FS1 FS2			Year 1		Year 2		Year 3		Year 4		Year 5		Year 6		
	51	FS	52	Ye	ar 1	Ye	ar 2	Ye	ar 3	Yea	nr 4	Yea	ar 5	Yea	ar 6
Sticky Knowledg e	Correspo nding Skill	FS Sticky Knowledge	Correspo nding Skill	Ye STICKY Knowledg e	ar 1 Correspon ding skill	Ye STICKY Knowledg e	ar 2 Correspon ding skill	Ye STICKY Knowledg e	ar 3 Correspon ding skill	Yea STICKY Knowledge	r 4 Correspondi ng skill	Yea STICKY Knowledge	ar 5 Correspondi ng skill	Yea STICKY Knowledge	ar 6 Correspond ing skill
Sticky Knowledg e Know how to stay safe at home and school	Correspo nding Skill Identify ways of staying safe (holding hands with parents when walking)	FS Sticky Knowledge Understan d how to stay safe online	Correspo nding Skill Tell adults when playing on tablet, computer, tv	Ye STICKY Knowledg e Understan d why we should keep personal informatio n private.	Ar 1 Correspon ding skill Keep personal information private.	Ye STICKY Knowledg e Understa nd what username s and password s are and why they are important	Correspon ding skill Use usernames and passwords safely.	Ye STICKY Knowledg e Understan d how to use safely, respectfull y and responsibl y.	Correspon ding skill Demonstrat e an ability to use technology safely, respectfully and responsibilit y.	Yea STICKY Knowledge Understand what is acceptable and unacceptable behaviour online.	Recognise acceptable and unacceptable behaviours online and act accordingly.	Yea STICKY Knowledge Understand what a digital footprint is and how it can impact your life.	ar 5 Correspondi ng skill Identify positive and negative digital footprints.	Yea STICKY Knowledge Understand what plagiarism and copyright means and its impact.	Find and use copyright free online content.

				Vocabulary		
Stranger, safe, adult	Safe, online, pop up, chat, tablet, computer, tv	Private, personal, information, inappropriate, report, trusted	(As Before +) username, password, respond, safely	(As Before +) respect, responsible, report, contact, stranger	(As Before +) Acceptable / unacceptable, scam, hackers, danger,	(As Befor traceable activity, c advertise

fore +) digital footprint, ole, impact, track, online cookies, sement, virus (As Before +) plagiarism, copyright, free, digital citizen, influence, social media