













Computing Progression Plan Years 1 - 6

Aspect	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Algorithms	Give simple instructions to everyday devices to make things happen.	Recognise what algorithms are, how they are implemented as programs on digital devices, and that programs execute by following precise and unambiguous instructions.	Use logical reasoning to explain how a simple algorithm works.	Detect and correct errors in algorithms and programs (debug)	With support, begin to produce algorithms by using logical and appropriate structures and sequencing to organise data, and create a precise and accurate sequence of instructions.	Independently, produce accurate and precise algorithms, using logical and appropriate structures to organise and record data.
Computational thinking	Create simple programs.	Create and debug simple programs.	Use sequence, selection and repetition in programs.	Test programs using models and stimulations. Design and write programs.	Use sequence, selection and repetition in programs; begin to work with variables and forms of input and output.	Use sequence, selection and repetition in programs; begin to work with variables and forms of various input and output. Create flowcharts and other diagrams to explain how a process model works.
Solving problems	Solve simple problems, using Computing.	Use logical reasoning to predict the behaviour of simple programs.	Analyse and tackle errors by decomposing into smaller parts.	Use logical reasoning to detect errors, make changes and find out what happens as a result.	Use logical reasoning to solve errors and model situations and processes. Predict what will happen when variables and rules are changed within a model.	Independently, use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs.
Computing networks – knowledge and understanding	Show an awareness of the internet and discuss how and when they use it in everyday life.	Understand what the internet is and how it can be used. Explain how and when they use it in everyday life. Recognise other common uses of information technology beyond school.	Demonstrate a knowledge of computer systems and networks, including storage devices, the internet and the world wide web.	Demonstrate a knowledge and understanding of computing systems and networks including storage device, the internet and the world wide web.	Understand computer networks including the internet and how they can provide multiple services, such as the world wide web.	Understand computer networks including the internet and how they can provide multiple services, such as the world wide web and the opportunities they offer for communication and collaboration.
Computing networks – using and applying	Complete simple searches on the internet by following instructions.	Complete simple tasks on the internet by following instructions. Begin to save, edit and store work in network folders.	Use search engines effectively. Be able to save, edit, store and retrieve work in network folders.	Use software and search engines effectively. Be able to save, edit, search, store and retrieve images and documents in network folders.	Use software and search engines effectively. Be able to save, search, edit, store, manipulate and retrieve different files in network folders.	Use software and search engines effectively. Be able to save, search, store, manipulate and retrieve different files in network folders and on the internet.















Computing Progression Plan Years 1 - 6

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Digital literacy –	Show an awareness of	Understand that information	Begin to develop skills when	Evaluate the success of their	Recognise the need for	Appreciate how results are
knowledge,	information in different	is presented in different	being discerning in evaluating	searches and the information	accuracy when searching and	selected and ranked and be
understanding,	formats. Make decisions	formats. Decide whether or	digital content.	provided. Use and combine a	selecting information. Use	discerning in evaluating digital
using and	about whether or not	not to trust information and	Identify and select	variety of software and	different sources to double	content. Use and combine a
applying	statements or images	images found online.	appropriate information. Use	internet services on different	check information. Use and	variety of software and internet
	found online are likely to		different approaches to	devices to accomplish goals,	combine a variety of software	services on different devices to
	be true.		searching and retrieving	including collecting and	and internet services on	accomplish goals, including
			digital information.	analysing data.	different devices to accomplish	collecting, analysing, evaluating
					goals, including collecting,	and presenting data and
					analysing and presenting data.	information.
E-safety	Understand and follow	Use technology safely and	Identify ways to keep safe	Recognise social networking	Use technology safely,	Use technology safely,
	rules around e-safety and	respectfully, keeping	online. Use technology safely	sites and make judgements in	respectfully and responsibly.	respectfully and responsibly;
	know who to tell if	personal information private;	and recognise online	order to stay safe online. Know	Be able to judge the level of	recognise
	something concerns them	identify where to go for help	behaviours that would be	who to tell if anything worries	risks online and when to	acceptable/unacceptable
	online.	and support when they have	unfair. Show respect for	them online. Identify potential	answer questions online and	behaviour; identify a range of
		concerns about content or	individuals and report	risks. Use Computing sensibly,	when not to. Be a good online	ways to report on concerns
		contact on the internet or	concerns.	securely and safely.	citizen and friend. Articulate	about content and contact.
		other online technologies.			what constitutes good	
					behaviour online.	
Data –	Explain that images give	Explain that images and	Explain that data can be	Recognise different ways of	Recognise and describe the	Recognise and describe the
knowledge,	information.	pictograms give information	presented in different ways.	reading and presenting data.	different ways of reading and	different ways of reading and
understanding,	Sort objects and pictures in	and input data to create a	Read and input data to create		presenting data.	presenting data.
using and	lists or simple tables.	pictogram.	pictograms, tables, bar charts	Interpret data from pictograms,		
applying		Read and present data in a	and a branching diagram or	branching diagrams, bar charts	Interpret data from branching	Be able to interpret data from
		simple Y/N branching	tree.	and time graphs.	diagrams, bar charts, time	all previous year groups
		diagram or tree and block			graphs and timetables.	confidently.
		graphs.		Input data to create bar charts		
				and time graphs.	Input data to create time	Input data to create pie charts
					graphs and timetables.	and line graphs.
Creative	Use technology	Use technology purposefully				
presentations	purposefully to create and	to create, organise, store,				
and digital	store images, videos and	manipulate and retrieve				
content	typed documents.	images, videos, typed				
		documents and				
		presentations.				