

Computing

Year One

Moving & Clicking Computer Science Children will learn the programs execute by following clear instructions, understand that programs respond to inputs to do different things and learn to combine start and input events to create more advanced apps and programs using precise instructions Understand what algorithms are • Create simple programmes • Real World vs Online World **Digital Literacy** Children will make a poster or video about how to stay safe and behave online. Use technology safely • Identify where to go to help and supports when they have concerns about content or contact Recognise the common uses of technology beyond school Identify where go for help and support when the have concerns about contact or content on the internet or other online technologies Keep personal information private Information Technology Making a Story Children will use publishing software to present a story

• Use technology purposefully to organise and manipulate digital content

	Year Two			
	Different Sorts of Input	Computer Science		
	Children will learn that programmes respond to different sorts of inputs, and that the keyboard can be used to control objects on screen, not just by clicking them directly. They will learn that one object can be used to control another object e.g. writing code so clicking a button gives and instruction to make a lorry move			
	 Understand that algorithms are implemented as programs on digital devices Understand that programs execute by following precise and unambiguous instructions Debug simple programs Use logical reasoning to predict he behaviour of simple programs Use logical reasoning to predict the behaviour of simple programs 			
	Sending an Email	Digital Literacy		
and the second se	Children will open, send and reply to an email safely a			
	 Use technology respectfully Keep personal information private Identify where go for help and support when the have concerns about contact or content on the internet or other online technologies 			
Making a Book		Information Technology		
	 Children will create a book, including photos and video Use technology purposefully to organise and manipula 	· · · · ·		

	Year Three	
Sec	quence and Animation	Computer Science
	 Children will learn to make things happen in a seq simulations. They will learn to code with "if statem to execute depending on what happens to other ob Write programs that accomplish specific goals Use sequence programs Work with various forms of input Work with various forms of output 	ents", which select different pieces of code
	Internet Research	Digital Literacy
•	 Children will use the internet for research and proce To use technology responsibly To identify a range of ways to report concerns ab To be discerning in evaluating digital content 	·
	Making a Poster Children will create a poster using publishing softw	Information Technology
Р	 Use search technologies effectively To use a variety of software (including Internet seaccomplish a given goal, including collecting and Year Four 	
Inti	roduction to Variables	Computer Science
	 Children will learn how computers use variables to use a score variable and learn how computers use over again (and again!) design, write and debug programs that accomplis simulating physical systems; solve problems by determining and output use sequence, selection, and repetition in program input and output use logical reasoning to explain how some simple errors in algorithms and programs select, use and combine a variety of software (includevices to design and create a range of programs goals, including collecting, analysing, evaluating at use technology safely, respectfully and responsibly behaviour; identify a range of ways to report compared to the section of the sect	repetition and loops to do things over and h specific goals, including controlling or composing them into smaller parts hs; work with variables and various forms of algorithms work and to detect and correct luding internet services) on a range of digital , systems and content that accomplish given and presenting data and information y; recognise acceptable/unacceptable
Wł	nat Should We Share?	Digital Literacy
	 Children will evaluate the school website to ensure To use technology safely and responsibly Identify a range of ways to report concerns about Recognise unacceptable behaviour 	we are sharing appropriate information

Ma	aking a Presentation	Information Technology
	Children will create a PowerPoint presentation.	
•	• Select and use a variety of software (including Internet services) to accomplish given goals including, analysing, evaluating and presenting information	



	Year Five	
Object Pro	perties, Random Numbers and Simulation	Computer Science
	 Children will learn how computers use numbers to are moving, and where they are. They will learn how numbers and how these can be used in simulations design, write and debug programs that accomplish specific goar solve problems by decomposing them into smaller parts use sequence, selection, and repetition in programs: work with use logical reasoning to explain how some simple algorithms with programs select, use and combine a variety of software (including intern create a range of programs, systems and content that accompand presenting data and information use technology safely, respectfully and responsibly; recognise a ways to report concerns about content and contact 	als, including controlling or simulating physical systems; variables and various forms of input and output vork and to detect and correct errors in algorithms and et services) on a range of digital devices to design and vlish given goals, including collecting, analysing, evaluating
W	orking Collaboratively Children will create a PowerPoint, working collabor	Digital Literacy
T	 through Teams. Understand the opportunities computer networks offer Identify a range of ways to communicate concerns 	-
	Presenting Results	Information Technology
	 Children will make a presentation using software of their choice that includes the result of a survey. Combine a variety of software (including internet services) on a range of digital devices to accomplish a specific goals, including collecting, analysing, evaluating and presenting data 	
	Year Six	
Complex V	ariables, Property Values and	Computer Science
·	Parameters	
And the second s	 Children will learn to use variables in more complex useful outputs. They will learn more about how cor parameters to store information about objects design, write and debug programs that accomplish specific goat solve problems by decomposing them into smaller parts 	mputers use property values and

- use sequence, selection, and repetition in programs; work with variables and various forms of input and output
- use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs
- select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information
- use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact

	Digital Citizenship	Digital Literacy
	Children will record a video about how to deal with cyberbullying and how to be a good digital citizen.	
	 To recognise a range of ways to report concerns. To recognise acceptable and unacceptable behaviour To use technology responsibly and respectfully 	
	Making a Film	Information Technology
3 7 77	Children will create a short film. Select a variety of software (including internet services) on a range of digital devices to accomplish a	
	specific goals	