

Knowledge and skills development

Subject area: Computing

EYFS						
National Curriculum strand:	Algorithms	Programs	Using technology	Working safely		
Knowledge	Give instructions to a programmable toy to make it move	Select a program on an iPad or laptop and know how to open it	Talk about the technology they use at home	Talk about age appropriate apps and games		
			Talk about different types of technology	Know that some apps and games are not safe for young children		
			Show they can use a range of technology such as iPad, laptop, camera			
Skills	 Begin to talk about how something moves or works Begin to list different IT in their home Begin to describe when technology can help us Begin to talk about ways to keep safe when using technology 					
Key Vocabulary		n; iPad; laptop; mouse; camer	<u> </u>			



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Year 1						
National Curriculum strand:	Algorithms	Programs	Using technology	Working safely		
Knowledge	Create a series of instructions and plan a journey for a programmable toy Make a simple animation by inputting a code	Create, store and retrieve digital content	Use a website and a camera Record sound and play back	Use technology safely Keep personal information private		
Skills	 Begin to clarify understanding about what algorithms are Plan a program Use a keyboard and mouse Use shape and line tools Use a keyboard to type and edit Add and remove text Begin to describe when technology can be used to solve problems List different IT in their home Talk about ways to keep safe on devices and online 					
Key vocabulary			save; exit; website; online; rec	ord; playback; technology; private		



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Year 2						
National Curriculum strand:	Algorithms and programs	Using technology	Working safely			
Knowledge	Understand that algorithms are used on digital devices Input algorithms to create animations Write a simple program and test it Predict what the outcome of a simple program will be (logical reasoning) Learn that programs run on different sorts of inputs	Understand that programs require precise instructions Organise digital content Retrieve and manipulate digital content Navigate the web to complete simple searches Know that the keyboard can be used to control objects on screen	Know where to go for help if concerned Use technology respectfully Know how technology is used inside and outside of school			
Skills	used to control objects on screen Clarify understanding about how algorithms are used and reflect on different algorithms, analysing their effectiveness Explain how computer programs could be used to solve problems and create their own simple programmes Design an algorithm and predict results Create and debug a program Use digital devices to take photographs Use tools to edit photographs Move and resize images Open a file Retrieve content from the web List different IT in school and outside of school. Give reasons why it is important to and evaluate ways of staying safe, including online.					
Key vocabulary	Algorithm; digital; device; input; outcome; precise		respectfully			