

National Curriculum KS1			Teach Computing Curriculum	National Centre for Computing Education  Funded by  Department for Education
		EYFS	Year 1	Year 2
	Understand what algorithms are.	<ul> <li>Understand that instructions lead to specific outcomes</li> <li>Order steps of a known task</li> </ul>	Begin to understand an algorithm is a set of instructions to achieve a specific purpose	<ul> <li>Describe a series of instructions as a sequence</li> <li>Explain that a sequence of commands has an outcome</li> </ul>
er Science		<ul> <li>Know directional words</li> <li>forward, backward, left, right</li> </ul>	<ul> <li>Combine forwards and backwards commands to make a sequence</li> <li>Combine four direction commands to make sequences</li> </ul>	Combine four directions commands to make increasingly more complex sequences
Computer	Understand that computers have no intelligence, and we	<ul> <li>Understand that we control computers</li> </ul>	Understand that we control computers by giving them instructions	Understand that computers have no intelligence, and we have to program them to do things
0)	have to program them to do things, and that programs execute by following precise and unambiguous instructions	Press buttons on a floor robot and talk about the movements	<ul> <li>Choose a command for a given purpose</li> <li>Show a series of commands can be joined together</li> </ul>	Explain that a sequence of commands has a start
				Explain what happens when we change the order of commands



			Understand that the order of instructions in an algorithm is important	Understand that instructions in an algorithm need to be in order, clear and unambiguous
ıce	Create and debug simple programs	Input a short     sequence of     instructions to     control a device	Give a sequence of instructions to a floor robot. (The length of programs increasing over the course of the year)	Create a simple program on screen, correcting any errors, with a particular goal or purpose in mind (e.g., drawing a shape or moving a sprite from one place to another).
uter Science		<ul> <li>Try alternative approaches to achieve a goal</li> </ul>	<ul> <li>Begin to debug instructions when a floor robot does not reach the intended destination</li> </ul>	Use the word debug to correct mistakes in an algorithm
Computer		Understands objects (beebots) can move in different directions.		Evaluate the success of an algorithm
	Use logical reasoning to predict the behaviour of simple programs		Begin to predict what will happen for a short sequence of instructions in a program	Predict the outcome of a sequence
				Compare prediction to the program outcome

Computer science & computational thinking allows us to develop skills and techniques to help us solve problems effectively, with or without the aid of a computer. Computational thinking is not 'thinking like a computer': computers are not capable of thought. Rather, it



is learning to think in ways which allow us, as humans, to solve problems more effectively and, when appropriate, use computers to help us do so. (Islington SoW)

			culum	Teach Co Curriculur		Funded by    203*   Department   for Education
K51				EYFS	Year 1	Year 2
Information technology	Creating Digital Content	Text	Use technology purposefully to create, organise, store, manipulate and retrieve digital content.	<ul> <li>Drawing on the IWB</li> <li>Creating pictures on an iPad.</li> <li>Using purple mash to be creative.</li> </ul>	<ul> <li>Identify and find keys on a keyboard.</li> <li>Add and remove text using basic typing skills (including use of space bar, backspace to delete and basic, age-appropriate punctuation)</li> <li>Save work to the appropriate location (hard drive and Google Drive)</li> <li>Begin to print, retrieve and edit work, with support.</li> </ul>	<ul> <li>Identify and find keys on a keyboard with increased confidence and speed</li> <li>Type capital letters Change font, style (bold, italic and underline) and size of text</li> <li>Save, print, retrieve and edit work from appropriate location (hard drive and Google Drive) independently</li> <li>Upload images or movies to appropriate place (hard drive and Google Drive), with support</li> </ul>
ì		Images		Take images using an iPad.	<ul> <li>Create/edit a drawing using a range of 'tools' such as brushes, pens, eraser, stamps and shapes, and set the size, colour and shape.</li> </ul>	<ul> <li>Add and resize images         (Including insert clip         art/copy &amp; paste an image)</li> <li>Capture/edit photograph         using a range of 'tools'</li> </ul>



		Explain why tools were chosen and used	
Multimedia			<ul> <li>Use software to create and edit digital music for a purpose</li> <li>Explain and begin to justify why tools were chosen and used</li> </ul>
		Label objects	
Data Handling	Interactive games used on the interactive whiteboard.  Children encouraged to create their own mathematical problems and use the interactive board to solve them.	<ul> <li>Identify that object can be counted</li> <li>Count objects with same properties</li> <li>Compare groups of objects</li> </ul>	Recognise that objects can be counted and compared using tally charts
		Describe objects in different ways	Select objects by attribute and make comparisons
			Recognise objects can be represented as pictures



computer
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Technology Enhanced Learning: At both Key Stages, information and communication technology should be used to enhance teaching and learning right across the curriculum: this is often called Technology Enhanced Learning (TEL) whereby a clear focus is placed on learning rather than technology. Naace/CAS joint guidance, 2013 Discrete introductions to tools should be provided in the first instance, to ensure best use.

National Curriculum			Teach ( Curricu	Computing lum	IJ		Centre for Computing	inded by  Department or Education	
KS1			EYFS		Year 1		Year 2		
су		Use technology safely and respectfully		ppendi: cted W		afety Cu	rriculum	Grid (Education for	a
Literacy	Safety	Keeping personal information private	ProjectEVOLVE - Education for a Connected World Resources  Stort here >					Start here >	
igital Lit	Online Sa	Identify where to go for help and support when they have concerns about						Education for a Connected World  A framework to equip children and young people for digital life  Connected World  A framework to equip children and young people for digital life  Connected World  A framework to equip children and young people for digital life  Connected World  A framework to equip children and young people for digital life  Connected World  A framework to equip children and young people for digital life  Connected World  A framework to equip children and young people for digital life  Connected World  A framework to equip children and young people for digital life  Connected World  A framework to equip children and young people for digital life  Connected World  A framework to equip children and young people for digital life  Connected World  A framework to equip children and young people for digital life  Connected World  A framework to equip children and young people for digital life  Connected World  A framework to equip children and young people for digital life  Connected World  A framework to expect the first the people for digital life  Connected World  A framework to expect the people for digital life  Connected World  A framework to expect the people for digital life  A framework to expect the people for digital life  Connected World  A framework to expect the people for digital life  Connected World  A framework to expect the people for digital life  Connected World  A framework to expect the people for digital life  Connected World  A framework to expect the people for digital life  Connected World  A framework to expect the people for digital life  A framework to expect the people for digital life  A framework to expect the people for digital life  A framework to expect the people for digital life  A framework to expect the people for digital life  A framework to expect the people for digital life  A framework to expect the people for digital life  A framework to expect the people for digital life  A framework to expect the people for digital life  A framework to expect the people	
Dig		content or contact on the internet or other online technologies							



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independe operating simple equipment	Identify a computer and its main parts  Of information technology  Use a mouse in different ways  Continue to practise mouse skills independently.