

	KNOWLEDGE PROGRESSION IN COMPUTING AT THE FOUNDATION STAGE			
	EARLY LEARNING GOALS FOR UNDERSTANDING OF THE WORLD			
	TECHNOLOGY			
National Curriculum	<ul> <li>Children recognise that a range of technology is used in places such as homes and schools.</li> <li>Children understand how to use technology for particular purposes.</li> </ul>			
Early Years Foundation Stage	Digital Citizenship  I can recognise some ways in which the internet can be used to communicate.  I can identify rules that help keep us safe and healthy in and beyond the home when using technology			
	Digital Literacy  I can name items we control in the everyday environment			
	Computer Science  ■ I know that an algorithm is a set of instruction that can solve a problem			
	<ul> <li>Information Technology</li> <li>I can identify devices I could use to access information on the internet.</li> <li>I know that work I create belongs to me.</li> <li>I can name the parts of a computer and know what they are used for: Mouse, Monitor, Printer, Keyboard, DVD/CD Rom, USB</li> </ul>			

	KNOWLEDGE PROGRESSION IN COMPUTING AT KEY STAGE ONE
National	• understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following
Curriculum	precise and unambiguous instructions
	• create and debug simple programs
	• use logical reasoning to predict the behaviour of simple programs
	• use technology purposefully to create, organise, store, manipulate and retrieve digital content
	• recognise common uses of information technology beyond school
	• use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they
	have concerns about content or contact on the internet or other online technologies
Year One	<u>Digital Citizenship</u>
	• I can recognise that there may be people online who could make me feel sad, embarrassed or upset
	• I can recognise that information can stay online and could be copied
	• I can explain rules to keep us safe when we are using technology both in and beyond the home
	Digital Literacy
	• I know how to use Purple Mash to word process
	• I can tell you the main keys for typing e.g. shift, space bar, full stop
	Computer Science (Year 1 Focus Vocab - Algorithm)
	• I know how to use BeeBots / BlueBots
	• I know how to use 2Go
	• I can tell you what an algorithm is
	I know that a program is a precise set of instructions
	Information Technology
	• I can identify a browser
	• I can identify the icons for applications on the desktop
	• I know what a browser is and how to open one
	• I know to log on with my individual log in
	• I know how to shut the computer down
Year Two	<u>Digital Citizenship</u>

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- I know who to talk to if I think someone has made a mistake about putting something online
- I know how someone can/would get help about being bullied online or offline

## **Digital Literacy**

- I know how to use Purple Mash to word process
- I know how to use Microsoft Word to word process
- I know how to save an image from the internet rather than using copy & paste
- I know which page orientation would best suit my work. e.g. portrait to landscape

## **Computer Science (Year 2 Focus Vocab - Program)**

- I know how to use BeeBots / BlueBots
- I know how to use Scratch
- I can tell you what a program is
- I can tell you what an algorithm is
- I can tell you what an event is
- I know programs need an event to begin
- I know that computers need precise instructions

## **Information Technology**

- I know that content on the internet may belong to other people
- I know there is a difference between physical, wireless and mobile networks
- $\bullet$  I know the difference between shutting the computer down and logging out

	KNOWLEDGE PROGRESSION IN COMPUTING AT LOWER KEY STAGE TWO
National	• design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve
Curriculum	problems by decomposing them into smaller parts
	• 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
	• understand computer networks including the internet; how they can provide multiple services, such as the world wide web; and opportunities they offer for communication and collaboration
	• use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital contents
	• 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
Year Three	<u>Digital Citizenship</u>
	• I know what is meant by 'identity'
	• I know how I can represent myself in different ways online
	• I know some technology specific forms of communication (e.g. emojis, acronyms)
	Digital Literacy
	• I know how to use Microsoft Word to word process
	• I know how to use Microsoft PowerPoint to word process
	• I know simple keyboard shortcuts e.g. Ctrl + V, X, C to re-order text
	I know the difference between save and save as
	Computer Science (Year 3 Focus Vocab - Sequence)
	• I know how to use Scratch
	• I know how to use Logo
	• I can tell you what a sequence is
	• I know that a sequence is a list of instructions in a particular order
	• I know that if I change the sequence I may change the outcome of the program

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	Information Technology
	• I know why copying someone else's work from the internet without permission can cause problems
	• I understand file extensions and which ones attribute to different ICT productsdoc .xls .ppt .pub .pdf .mp3 .mp4
Year Four	Digital Citizenship
	• I know how my online identity can be different to the identity I present in 'real life'.
	• I know some online technologies where bullying might take place
	• I know times or situations when I might need to limit the amount of time I use technology
	<u>Digital Literacy</u>
	• I know how to use Microsoft Word to word process
	• I know how to use Microsoft PowerPoint to word process
	• I know different ways I can present information using Microsoft Word and Microsoft PowerPoint
	I am beginning to know how to adapt my work for an audience and purpose
	Computer Science (Year 4 Focus Vocab – Repeat / Loop)
	• I know how to use Scratch
	• I know how to use Logo
	• I know what a loop or repeat is
	I know that a loop is used to repeat a set of instructions
	<u>Information Technology</u>
	• I know what criteria have to be met before something is a 'fact'
	• I know how internet use can be monitored
	• I understand that there are multiple platforms and the differences between these e.g. Windows / Apple / Android
	• I explain file extensions and which ones attribute to different ICT productszip
	• I can describe what an ISP is
	• I can describe what a URL (web address) is
	• I can explain domain name typesac. uk .gov .sch

	KNOWLEDGE PROGRESSION IN COMPUTING AT UPPER KEY STAGE TWO
National	• design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve
Curriculum	problems by decomposing them into smaller parts
	• 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
	• understand computer networks including the internet; how they can provide multiple services, such as the world wide web; and
	opportunities they offer for communication and collaboration
	• use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital conte
	• select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of digital devices.
	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
V	report concerns about content and contact.
Year Five	Digital Citizenship
	I know how identity online can be copied, modified or altered
	• I know how to block abusive users
	• I know how I would report online bullying on the apps and platforms that I use
	• I know the helpline services who can support me and what I would say and do if I needed their help (e.g. Childline / CEOP)
	<u>Digital Literacy</u>
	• I know how to use advanced features of Microsoft Word to word process
	• I know how to use advanced features of Microsoft PowerPoint to word process
	• I know when to choose the features that I need for the task I am doing
	• I know different ways I can present information using Microsoft Word and Microsoft PowerPoint
	• I know how to adapt my work for an audience and purpose
	Computer Science (Year 5 Focus Vocab – Selection/Conditional)
	• I know how to use Scratch
	• I know how to use Logo
	• I can tell you what a conditional is

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#### **Information Technology**

- I know the difference between online mis-information (inaccurate info. distributed by accident) and dis-information (inaccurate info. deliberately distributed & intended to mislead)
- I know why some information I find online may not be honest, accurate or legal
- I know that intellectual property rights and copyright protection carry into the online world.
- I know what an operating system is
- I can identify the key internal parts of a computer

#### Year Six

#### **Digital Citizenship**

- I know my responsibilities for the well-being of others in my online social group.
- I know how I would support others (including those who are having difficulties) online.
- I know ways of reporting problems online for both my friends and myself
- I know how I am developing an online reputation, which will allow other people to form an opinion of me I know a range of ways to report concerns in both school and at home about online bullying

#### **Digital Literacy**

- I know how to use advanced features of Microsoft Word to word process
- I know how to use advanced features of Microsoft PowerPoint to word process
- I know when to choose the software that I think will be the best for the task I am doing
- I know how to adapt my work for an audience and purpose

## **Computer Science (Year 6 Focus Vocab – Variable)**

- I know how to use Scratch
- I know how to use Logo
- I can explain what a variable is
- I know that there are many other programming languages

# **Information Technology**

- I know how some online information can be opinion and can offer examples
- I know how and why some people may present 'opinions' as 'facts'
- I know what to do if my password is lost or stolen
- I know what app permissions are and can give some examples from the technology or services I use
- I know simple ways to increase privacy on apps and services that provide privacy settings