



Computing Curriculum Map

EYFS	<p><u>When they leave the Early Years, we expect children to be able to:</u></p> <ul style="list-style-type: none"> • Explore a range of real-world technology and play technology. • Watch and operate the use of office equipment. Observe technology around them such as automatic doors and cash machines. • Create role play experiences such as using a cashpoint. • Explore a range of apps, software and hardware and talk about their purposes. • Children take photographs, record voices and use tablets or video cameras to capture their learning. • Share learning using a class page of the school website, a blog or class Twitter account. • Share learning experiences using Skype or other video conferencing across classes, across schools, or with an expert who could be anywhere in the world. • Retrieve information from a computing device using QR codes, child friendly search engine, image based hyperlink
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	Autumn	Spring	Summer
Year 1	<ul style="list-style-type: none"> • Recognise common uses of information technology. • Understand where to go for help and support when they have concerns about content or contact on the internet or other online technologies. 	<ul style="list-style-type: none"> • To use technology purposefully to create digital content. • Focus: Book Creator / Everyone Can Create chapter 1 	<ul style="list-style-type: none"> • Predict the behaviour of simple programs. • Understand what algorithms are and how they implemented on digital devices.

Year 2	<ul style="list-style-type: none"> Recognise common uses of information technology beyond school. Use technology purposefully to create, organize, store, manipulate and retrieve digital content. Use technology safely and keep personal information private. 	<ul style="list-style-type: none"> Use technology purposefully to create digital content, comparing the benefits of different programs. 	<ul style="list-style-type: none"> Use logical reasoning to predict the behaviour of simple programs. Create and debug simple programs. Debug simple programs by using logical reasoning to predict the actions instructed by the code. Understand that programs execute by following precise and unambiguous instructions. Focus Get Started with code 1 Tynker
Year 3	<ul style="list-style-type: none"> Recognise an input and output device and how they are used. Make efficient use of familiar forms of input and output devices. Understand that computer network enables the sharing of data and information. Understand that the internet is a large network of computers and that information can be shared between computers. With support select and use a variety of software to accomplish goals. 	<ul style="list-style-type: none"> Use technology safely and respectfully keeping personal information private. Use technology safely and recognise acceptable and unacceptable behaviour. Use simple search technologies. Use simple search technologies and recognise that some sources are more reliable than others. 	<ul style="list-style-type: none"> Design write, and debug programmes that control or simulate virtual events. Use logical reasoning to explain how some simple algorithms work. Focus Get Started with code 1 Tynker
Year 4	<ul style="list-style-type: none"> Use other input devices such as cameras or sensors. Understand what servers and how they provide services to a network. With support, select and use a variety of software on a range of digital devices. 	<ul style="list-style-type: none"> Use technology responsibly and understand that communication online may be seen by others. Understand where to go for help and support when they have concerns about content or contact on the internet or other online technologies. Understand how results are selected and rank by search engines. 	<ul style="list-style-type: none"> Decompose programmes into smaller parts. Use logical reasoning to detect and correct errors in algorithms and programs. Select, use, and combine a variety of software, systems and content that accomplish given goals.

	<ul style="list-style-type: none"> With support, select, use, and combine a variety of software on a range of digital devices to accomplish given goals. 		
Year 5	<ul style="list-style-type: none"> Begin to use internet services to share and transfer data to a third party. Independently select and use appropriate software for a task. Independently select, use, and combine a variety of software to design and create content for a given audience. 	<ul style="list-style-type: none"> Understand the need to only select age-appropriate content. Use filters in search technologies effectively. Use filters in search technologies effectively and appreciate how results are selected and ranked. 	<ul style="list-style-type: none"> Design, input and test an increasingly complex set of instructions to a program or device. Design, write, and debug programs that accomplish specific goals including controlling or simulating physical systems. Design, write, and test simple programs that follow a sequence of instructions or allow a set of instructions to be repeated. Design, write, and test simple programs with opportunities for selection where a particular result will happen based on actions or situations controlled by the user. Use logical reasoning to explain how increasingly complex algorithms work to ensure a program's efficiency.
Year 6	<ul style="list-style-type: none"> Understand how computer networks enable computers to communicate and collaborate. Begin to use the internet within their own creations to share and transfer data. Independently select, use, and combine a variety of software to design and create content for a given audience including collecting, analysing, evaluating, and presenting data and information. Design and create a range of programs, systems and content for a given audience. 	<ul style="list-style-type: none"> Use technology respectfully and responsibly. Identify a range of ways to report concerns about content and contact in and out of school. Be discerning when evaluating digital content. Use filters in search technologies effectively and is discerning when evaluating digital CONTENT. 	<ul style="list-style-type: none"> Include use of sequences, selection, and repetition with the hardware used to explore real world systems. Solve problems by decomposing them into smaller parts. Create programs which use variables. Use variables, sequence, selection, and repetition in programs. Use logical reasoning to explain how increasingly complex algorithms work and to detect and correct errors in algorithms and programs efficiently.

	<ul style="list-style-type: none">Independently select, use, and combine a variety of software to collect, analyse, evaluate and present data and information.		
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