		KS1 🌳 Hawthorn, Rowan and Beech 🌳	LKS2 🌳 Larch, Willow and Alder 🌳	UKS2 🌳 Ash, Sycamore and Elm 🌳
		Pupils should be taught to: • 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.	Pupils should be taught to: • understand computer networks including the internet; how they can provide multiple services, such as the world wide web; and the opportunities they offer for communication and collaboration • use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content • use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.	
EYFS Maple and Oak	Information Technology and E-Safety	• I know how to use technology safely. • Understand what personal information is and who you can share it with, including the need to keep passwords private. • Know who to tell when they see something that makes them uncomfortable and make sure an adult knows what they are doing. • Understand what personal information is and who you can share it with, including the need to keep passwords private. • I know how to retrieve digital content • I know who I am sharing my learning with online and recognise the difference between real and imaginary online experiences. Recognise the Internet as an exciting place to be but understand the need for a balance in how they spend their time and make good choices about age appropriate activities.	• Recognise the need for a secure password. • Recognise the need to keep personal information and passwords private. • Understand that an adult needs to know what they are doing online and understand how to report concerns, including cyberbullying. Understand that any personal information they put online can be seen and used by others. • I know how to understand the need for rules to keep them safe when exchanging ideas online. • I know how to understand that an adult needs to know what they are doing online and understand how to report concerns, including cyberbullying. • I know how to recognise the need to choose age-appropriate games to play on their devices, and when to limit use. • I know how to recognise the need to protect their devices from viruses.	• I know how to understand the need to keep personal information and passwords private, and know how to choose a secure password. • I know how to understand appropriate and inappropriate use of the Internet including excessive use. • I know how to recognise the risks and rewards of using Internet communication tools • I know how to understand how to protect themselves and the devices they use. I know how to understand the need to respect the rights of other users • I know how to understand their own responsibility for information that is shared and how it may impact on others. • I know how to recognise their own right to be protected from the inappropriate use of technology by others and their responsibility to report concerns • I know how to understand how to use social networking websites appropriately, keeping an adult informed about their online active • I know how to make good choices when they present themselves online. • I know how to recognise the appropriate online tools to collaborate and communicate with others • I know how to understanding how to protect themselves from cyberbullying or causing hurt to others, especially when using social networks • I know how to understand the need to respect the rights of other users, and understand their own responsibility for information that is shared and how it may impact on others. • I know how to discuss the risk of online use of technology • I know how to identify how to minimise risks. • I know how to recognise the risks and rewards of using Internet communication tools. • Understand that you have to make choices when using technology and that not everything is true and/or safe.

		Pupils should be taught to:	Pupils should be taught to:	
	Digital Literacy	• use technology purposefully to create, organise, store, manipulate and retrieve digital content	• 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	
		• I know how to create digital content • I know how to store digital content. • I know how to use a camera • I know how to record sound and play back • I know how to use a website. • I know how to create digital content • I know how to store digital content. • I know how to organise digital content • I know how to retrieve and manipulate digital content • I know how to navigate the web to complete simple searches • I know how to retrieve and manipulate digital content. • I know how to know who to tell when they see something that makes them uncomfortable and make sure an adult knows what they are doing. • I know how to recognise the Internet as an exciting place to be but understand the need for a balance in how they spend their time and make good choices about age appropriate activities. • I know how to recognise the Internet as an exciting place to be but understand the need for a balance in how they spend their time and make good choices about age appropriate activities.	• Design a sequence of instructions including directional instructions • Write programs that accomplish specific goals • Work with various forms of input • Work with various forms of output • Use a range of software for similar purposes. • Design and create content. • Use technology respectfully and responsibly. • Understand that computer networks do and how they provide multiple services. • Discern where it is best to use technology and where it adds little or no value • Collect and present data. • Experiment with variables to control models. • Make an accurate prediction and explain why I believe something will happen • De-bug a program • I know how to recognise that they can use online tools to collaborate and communicate with others and the importance of doing this responsibly, choosing age-appropriate websites. • I know how to understand that any personal information they put online can be seen and used by others. • I know how to recognise the effect their writing or images might have on others.	• I know how to select, use and combine software on a range of digital devices • I know how to use a range of technology for a specific project • Edit a film. • I know how to understand appropriate and inappropriate use of the Internet including excessive use. • I know how to recognise the risks and rewards of using Internet communication tools. • Analyse information • Understand how search results are selected and ranked. • Understand that you have to make choices when using technology and that not everything is true and/or safe • I know how to design a solution by breaking a problem up
	Computer Science	Pupils should be taught to: • understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions • create and debug simple programs • use logical reasoning to predict the behaviour of simple programs	Pupils should be taught to: • design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve 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	

		• Design a sequence of instructions including directional instructions. • Write programs that accomplish specific goals • Give an on-screen robot specific instructions that takes them from A to B • Select and use software to accomplish given goals • Produce an upload pod cast	• Design algorithms that use repetition & 2-way selection. • I know how to use selection in programs • I know how to work with variables • I know how to recognise that differed solutions can exist for the same problem • I know how to use logical reasoning to detect errors in algorithms.

• I know how to create a series of instructions.
• I know how to plan a journey for a programmable toy.
• I know how to write a simple program and test it
• I know how to predict what the outcome of a simple program will be
I know how to understand that algorithms are used on digital devices
• I know how to understand that program require precise instructions
• I know how to use a range of instructions
• I know how to test and amend a set of instructions
• I know how to find errors and amend.