

# Computing Knowledge and Skills Progression Document



FARNSFIELD ST MICHAEL'S C OF E PRIMARY SCHOOL

Key Area	EYFS	Year 1 and 2	Year 3 and 4	Year 5 and 6
<b>Computer Science</b>	<p>Know that pressing different buttons to change an output.</p>	<p>Know what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions</p> <p>Know how to create and debug simple programs.</p> <p>Know how to use logical reasoning to predict the behaviour of simple programs.</p>	<p>Know how to design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts.</p> <p>Know how to use sequence, selection and repetition in programs; work with variables and various forms of input and output.</p> <p>Know how to use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs.</p> <p>Know that computer networks, including the internet; can provide multiple services, such as the World Wide Web, and the opportunities they offer for communication and collaboration.</p>	<p>Know how to design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts.</p> <p>Know how to use sequence, selection and repetition in programs; work with variables and various forms of input and output.</p> <p>Know how to use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs.</p> <p>Know that computer networks, including the internet; can provide multiple services, such as the World Wide Web, and the opportunities they offer for communication and collaboration.</p>
<b>Information Technology</b>	<p>Know that information can be found using devices</p>	<p>Know how to use technology purposefully to create, organise, store, manipulate and retrieve digital content.</p>	<p>Know how to use search technologies effectively, appreciate how results are selected and ranked, and be discerning in</p>	<p>Know how to use search technologies effectively, appreciate how results are selected and ranked, and be discerning in</p>

	and the internet.		evaluating digital content.  Know how to 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.	evaluating digital content.  Know how to 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.
<b>Digital Literacy</b>	Know how to begin using devices to take photographs and videos.	Know how to 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.	Know how to use technology safely, respectfully and responsibly; recognise acceptable/ unacceptable behaviour; identify a range of ways to report concern about content and contact.	Know how to use technology safely, respectfully and responsibly; recognise acceptable/ unacceptable behaviour; identify a range of ways to report concern about content and contact.
<b>Online Safety</b>	Know that personal information is important and who they can share it with.  Know that there are people who they can tell when they see something that makes them uncomfortable.	<ul style="list-style-type: none"> <li>• Know how to login to Purple Mash using own login and password.</li> <li>• Know that a password is a secret word, usually made of letters or numbers that lets you login to a computer.</li> <li>• Know that an avatar (pronounced a-vuh-taa) is an image used to represent you online.</li> <li>• Know that an image is a picture that has been created or copied and stored in electronic form.</li> <li>• Know how to name an image created on the computer to create an avatar.</li> <li>• Know how to Save work into own folder on Purple Mash.</li> <li>• Know that this is a private saving space just for their work.</li> <li>• Know how to find saved work in the</li> </ul>	<ul style="list-style-type: none"> <li>• Know that a password is a secret set of characters needed to login to a computer, application or website.</li> <li>• Know that a character can be a letter, number or symbol but not a space on a keyboard.</li> <li>• Know what makes a safe password including special characters and lower and upper case letters</li> <li>• Know how to keep passwords safe by not sharing with people, not leaving them lying round.</li> <li>• Know what the consequences of giving a password away might be.</li> <li>• Know that the Internet is an electronic communications network of networks that connects computer networks all across the world.</li> <li>• Know how the Internet can be used</li> </ul>	<ul style="list-style-type: none"> <li>• Know that the key online safety messages are: <ul style="list-style-type: none"> <li>• not to give out personal information when chatting or posting online.</li> <li>• if meeting someone online then meet them with parents' / carers permission and only when they can be present.</li> <li>• never accept instant messages, emails, pictures, texts from people you don't know or trust.</li> <li>• Always check how reliable information is online with other websites, books or someone who knows.</li> <li>• Tell your parent, carer or a trusted adult if someone or something makes you feel uncomfortable or worried, or if you or someone you</li> </ul> </li> </ul>

		<p>‘Online Work’ area of Purple Mash.</p> <ul style="list-style-type: none"> <li>• Know how to find messages that their teacher has left for them.</li> <li>• Know how to Search Purple Mash to find resources.</li> <li>• Know how to use templates to add pictures to work.</li> <li>• Know that a template (pronounced tem-playt) is a sample document that already has some details in place.</li> <li>• Know that a document is an electronic page that gives information about something.</li> <li>• Know that an icon is a pictogram shown on a computer screen to help the user navigate a computer system.</li> <li>• Know that navigate means to move around.</li> <li>• Know that Save means to keep and store information.</li> <li>• Know that Print means to produce work from the computer onto paper.</li> <li>• Know that Open means to show a document on screen.</li> <li>• Know that New means to open a new document.</li> <li>• Know how to log out of Purple Mash correctly.</li> <li>• Know that to log out means to quit or leave a computer or an application</li> </ul>	<p>to communicate effectively.</p> <ul style="list-style-type: none"> <li>• Know that a blog is a regularly updated website or web page, usually one run by an individual or small group, that is written in a chatty style.</li> <li>• Know how to use a blog to communicate to a wider audience.</li> <li>• Know that online safety means how to stay safe online.</li> <li>• Know how to contribute ideas to a class 2Connect map. content and contact.</li> <li>• Know how to plan a range of resources to help parents and children to understand online safety.</li> <li>• Know that the key online safety messages are: <ul style="list-style-type: none"> <li>• not to give out personal information when chatting or posting online</li> <li>• if meeting someone online then meet them with parents’ / carers permission and only when they can be present,</li> <li>• never accept instant messages, emails, pictures, texts from people you don’t know or trust.</li> <li>• Always check how reliable information is online with other websites, books or someone who knows.</li> <li>• Tell your parent, carer or a trusted adult if someone or something makes you feel uncomfortable or worried, or if you or someone you know is being bullied online.</li> </ul> </li> <li>• Know that personal information is any information that can be used to identify you or find out where you are.</li> </ul>	<p>know is being bullied online.</p> <ul style="list-style-type: none"> <li>• Know that personal information is any information that can be used to identify you or find out where you are.</li> <li>• Know that personal information could be information such as your full name and address, date of birth, address, which school you attend.</li> <li>• Know which information we should accept online.</li> <li>• Know what reliable information is. Understand that reliable information is information we can trust.</li> <li>• Know which information we should keep safe.</li> <li>• Know who to tell if there is something that concerns us online.</li> <li>• Know how to be careful when meeting up.</li> <li>• Know how to use the Childnet SMART CREW resources to help us understand how to keep safe online.</li> <li>• Know what to do if we are upset by something that happens online.</li> <li>• Know how to create a comic strip to share key online safety messages.</li> <li>• Know the different aspects of online safety.</li> <li>• Know how to create a game on 2DIY, 2DIY or 2Code that uses online safety as the theme.</li> <li>• Know that a blog is a regularly updated website or web page, usually one run by an individual or small group, that is written in a chatty style.</li> <li>• Know how to use a blog to communicate to a wider audience.</li> <li>• Know what the safety aspects of blogging are.</li> </ul>
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