

ST AMBROSE CATHOLIC PRIMARY SCHOOL COMPUTING CURRICULUM MAP 2019-2020

KSI	Autumn		Spring		Summer	
Year 1	<u>Grouping & Sorting</u> <u>Information Technology:</u> - use technology purposefully to create, organise, store, manipulate and retrieve digital content		<u>Online Safety</u> Safer Internet Day	<u>Technology Outside of School</u> <u>Digital Literacy:</u> - recognise common uses of information technology beyond school		
Year 2		<u>Making Music</u> <u>Information Technology:</u> - use technology purposefully to create, organise, store, manipulate and retrieve digital content	<u>Online Safety</u> Safer Internet Day			<u>Coding</u> <u>Computer Science:</u> - understand what algorithms are, how they are implemented as programs on digital devices, and that programs execute by following precise and unambiguous instructions

						<ul style="list-style-type: none">- create and debug simple programs- use logical reasoning to predict the behaviour of simple programs
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Key stage 1

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 (Year 2)
- create and debug simple programs (Year 2)
- use logical reasoning to predict the behaviour of simple programs (Year 2)
- use technology purposefully to create, organise, store, manipulate and retrieve digital content (Year 1 and 2)
- recognise common uses of information technology beyond school (Year 1)
- 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 1 and 2)

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KS2	Autumn 1		Spring		Summer	
Year 3		<p><u>Touch Typing</u></p> <p><u>Computer Sciences:</u> - use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact</p>	<p><u>Online Safety</u> Safer Internet Day</p>			<p><u>Coding</u></p> <p><u>Computer Science/Information Technology:</u> -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 - select, use and combine a</p>

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						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
Year 4			<p><u>Online Safety</u> Safer Internet Day</p> <p><u>Effective Searches</u></p> <p><u>Computer Science/Online Safety:</u></p> <ul style="list-style-type: none"> - 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 			<p><u>Writing for different audiences</u></p> <p><u>Information Technology:</u></p> <ul style="list-style-type: none"> - 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

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			results are selected and ranked, and be discerning in evaluating digital content			
Year 5		<p><u>Game Creator</u></p> <p><u>Computer Science/Information Technology:</u></p> <ul style="list-style-type: none"> - design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts - 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 	<p><u>Online Safety</u></p> <p>Safer Internet Day</p>			<p><u>Coding</u></p> <p><u>Computer Science/Information Technology:</u></p> <ul style="list-style-type: none"> -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 - select, use and combine a variety of software (including internet services) on a range of digital devices to design

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						and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information
Year 6			<p><u>Online Safety</u></p> <p><u>Safer Internet Day</u></p>	<p><u>Blogging</u></p> <p><u>Computer Science/Online Safety:</u></p> <ul style="list-style-type: none"> - 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 technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact - select, use and combine a 		<p><u>Coding</u></p> <p><u>Computer Science/Information Technology:</u></p> <ul style="list-style-type: none"> -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

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				<p>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</p>		<p>- 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</p>
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Key stage 2

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 (Year 3, Year 5 & Year 6)*
- *use sequence, selection, and repetition in programs; work with variables and various forms of input and output (Year 3 & Year 6)*
- *use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs (Year 3 & Year 6)*
- *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 (Year 4 & Year 6)*
- *use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content (Year 4)*
- *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 (Year 3, Year 4, Year 5 & Year 6)*
- *use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact (Year 3, Year 4, Year 5 & Year 6)*