
	<div>St Andrew's C of E Primary School</div> <div><u>Curriculum Map for Computing</u></div>	
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E Safety	Programming	Handling Data	Multimedia	Technology in our Lives
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Year Group	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Children recognise that a range of technology is used in places such as homes and schools. They select and use technology for particular purposes						
EYFS - Nursery	Why do you love me so much? Why do leaves go crisp?	Where does snow go?	Do Dragons Exist? E-Safety Day	Are eggs alive?	Why can't I have Chocolate for Breakfast?	How High Can I Jump?
	Typical Behaviours -Seeks to acquire basic skills in turning on and operating equipment -Knows how to operate simple equipment -Interacts with age appropriate computer software					
	Children recognise that a range of technology is used in places such as homes and schools. They select and use technology for particular purposes					
EYFS - Reception	Do you want to be friends? Why do squirrels hide their nuts? -Do the children take an interest in the route map? -Can they explain what is happening? -Can the children use the map's icons correctly?	Will you read me a story?	What happens when I fall to sleep? -Can the children describe what happens when they look through the telescope or binoculars? -Can they use a turn wheel or similar to focus? -Do the children show in interest in using the toys? E-Safety Day	Who lives in a rock pool?	Why do ladybirds have spots?	Are We There Yet?
	Typical Behaviours -Knows how to operate simple equipment -Interacts with age appropriate computer software -Select and use technology for a particular purpose - Select appropriate applications that support an identified need.					

E Safety	Programming	Handling Data	Multimedia	Technology in our Lives
<p>EA - I can explain why I need to keep my password and personal information private.</p> <p>EB - I can describe the things that happen online that I must tell an adult about.</p> <p>EC - I can talk about why I should go online for a short amount of time.</p> <p>ED - I can talk about why it is important to be kind and polite online and in real life.</p> <p>EE - I know that not everyone is who they say they are on the Internet.</p>	<p>PA - I can give instructions to my friend (using forward, backward and turn) and physically follow their instructions.</p> <p>PB - I can tell you the order I need to do things to make something happen and talk about this as an algorithm.</p> <p>PC - I can program a robot or software to do a particular task.</p> <p>PD - I can look at my friend's program and tell you what will happen.</p> <p>PE - I can use programming software to make objects move.</p> <p>PF - I can watch a program execute and spot where it goes wrong so that I can debug it.</p>	<p>HA - I talk about the different ways I use technology to collect information, including a camera, microscope or sound recorder.</p> <p>HB - I can make and save a chart or graph using the data I collect.</p> <p>HC - I can talk about the data that is shown in my chart or graph.</p> <p>HD - I am starting to understand a branching database.</p> <p>HE - I can tell you what kind of information I could use to help me investigate a question</p>	<p>MA - I can use technology to organise and present my ideas in different ways.</p> <p>MB - I can use the keyboard on my device to add, delete and space text for others to read.</p> <p>MC - I can tell you about an online tool that will help me to share my ideas with other people.</p> <p>MD - I can save and open files on the device I use.</p>	<p>TA - I can tell you why I use technology in the classroom.</p> <p>TB - I can tell you why I use technology in my home and community.</p> <p>TC - I am starting to understand that other people have created the information I use.</p> <p>TD - I can identify benefits of using technology including finding information, creating and communicating.</p> <p>TE - I can talk about the differences between the Internet and things in the physical world.</p>

Year Group	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
	<p><u>National Curriculum - KS1</u> Pupils should be taught to:</p> <ul style="list-style-type: none"> ♣ 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 ♣ use technology purposefully to create, organise, store, manipulate and retrieve digital data ♣ 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.. 					
KS1 - Year 1	<p><u>Superheroes</u> <u>Programming</u></p> <p>➤ Understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous</p>	<p><u>Dinosaur Planet</u> <u>Multi Media</u> <u>Handling Data</u> <u>Tech in our Lives</u></p> <p>➤ Use technology purposefully to create, organise, store, manipulate and retrieve digital content</p>	<p><u>Paws, Claws & Whiskers</u> <u>Multi Media</u> <u>Tech in our Lives</u> <u>E-Safety</u></p> <p>➤ Use technology purposefully to create, organise, store, manipulate and</p>	<p><u>Enchanted Woodland</u> <u>Tech in our Lives</u> <u>E-Safety</u></p> <p>➤ Recognise common uses of information technology beyond school</p> <p>➤ Use technology safely and respectfully, keeping personal</p>	<u>Beachcomber</u>	<u>Memory Box</u>

	<p>instructions Create and debug simple programs</p> <p>➤ Use logical reasoning to predict the behaviour of simple programs.</p> <p>(PA-F)</p> <p><i>Beebots - programming</i> <i>Taking pictures</i></p> <p>Workshop - Programming BEEBOTS</p>	<p>➤ Recognise common uses of information technology beyond school</p> <p>(MA MD) (HA) (TA-E)</p> <p><i>Green screening</i> <i>Editing images</i> <i>Chatter pix</i></p>	<p>retrieve digital content</p> <p>➤ Recognise common uses of information technology beyond school</p> <p>➤ 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.</p> <p>(MA-D) (TA-E) (EB-E)</p> <p><i>Presentation</i></p> <p>E-Safety Day</p>	<p>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.</p> <p>(TD TE) (EB-E)</p> <p><i>Sending Email</i></p>		
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E Safety	Programming	Handling Data	Multimedia	Technology in our Lives
<p>EA - I can explain why I need to keep my password and personal information private.</p> <p>EB - I can describe the things that happen online that I must tell an adult about.</p> <p>EC - I can talk about why I should go online for a short amount of time.</p> <p>ED - I can talk about why it is important to be kind and polite online and in real life.</p> <p>EE - I know that not everyone is who they say they are on the Internet.</p>	<p>PA - I can give instructions to my friend (using forward, backward and turn) and physically follow their instructions.</p> <p>PB - I can tell you the order I need to do things to make something happen and talk about this as an algorithm.</p> <p>PC - I can program a robot or software to do a particular task.</p> <p>PD - I can look at my friend's program and tell you what will happen.</p> <p>PE - I can use programming software to make objects move.</p> <p>PF - I can watch a program execute and spot where it goes wrong so that I can debug it.</p>	<p>HA - I talk about the different ways I use technology to collect information, including a camera, microscope or sound recorder.</p> <p>HB - I can make and save a chart or graph using the data I collect.</p> <p>HC - I can talk about the data that is shown in my chart or graph.</p> <p>HD - I am starting to understand a branching database.</p> <p>HE - I can tell you what kind of information I could use to help me investigate a question</p>	<p>MA - I can use technology to organise and present my ideas in different ways.</p> <p>MB - I can use the keyboard on my device to add, delete and space text for others to read.</p> <p>MC - I can tell you about an online tool that will help me to share my ideas with other people.</p> <p>MD - I can save and open files on the device I use.</p>	<p>TA - I can tell you why I use technology in the classroom.</p> <p>TB - I can tell you why I use technology in my home and community.</p> <p>TC - I am starting to understand that other people have created the information I use.</p> <p>TD - I can identify benefits of using technology including finding information, creating and communicating.</p> <p>TE - I can talk about the differences between the Internet and things in the physical world.</p>

Year Group	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
	<p><u>National Curriculum – KS1</u> Pupils should be taught to:</p> <ul style="list-style-type: none"> ✦ 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 ✦ use technology purposefully to create, organise, store, manipulate and retrieve digital data ✦ 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.. 					
KS1 – Year 2	<p><u>Muck, Mess & Mixtures</u> <u>Multimedia</u></p> <p>➤ Use technology purposefully to create, organise, store, manipulate and retrieve digital content</p>	<p><u>Bright Lights, Big City</u> <u>Technology in our Lives</u></p> <p>➤ Use logical reasoning to predict the behaviour of simple programs</p> <p>➤ Use technology purposefully to</p>	<p><u>Towers, Tunnels and Turrets</u> <u>E Safety</u></p> <p>➤ Use technology safely and respectfully, keeping personal information private; identify where to go for help and support</p>	<p><u>Wriggle & Crawl</u> <u>Handling Data</u></p> <p>➤ Use technology purposefully to create, organise, store, manipulate and retrieve digital content</p>	<p><u>Land Ahoy</u></p>	

	<p>➤ Recognise common uses of information technology beyond school</p> <p>(MA, MD)</p> <p><i>I Pastels-create artwork</i></p>	<p>create, organise, store, manipulate and retrieve digital content</p> <p>(TA-E)</p> <p><i>Edited photos</i> <i>Saved information</i> <i>Green screening</i> <i>Puppet pals</i></p> <p><i>Workshop - Multimedia PUPPET PALS</i></p>	<p>when they have concerns about content or contact on the internet or other online technologies</p> <p>(EB-E)</p> <p><i>Research</i> <i>I Pastels</i></p> <p><i>E-Safety Day</i></p>	<p>➤ Recognise common uses of information technology beyond school</p> <p>➤ 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.</p> <p>(HA-E)</p> <p><i>Data handling</i></p>	
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Additional Lessons covering...	<p><u>E-Safety</u> (EA)</p> <p>➤ I can explain why I need to keep my password and personal information private.</p>
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E Safety	Programming	Handling Data	Multimedia	Technology in our Lives
<p>EA - I choose a secure password and screen name when I am using a website.</p> <p>EB - I can talk about the ways I can protect myself and my friends from harm online</p> <p>EB - I use the safety features of websites as well as reporting concerns to an adult.</p> <p>EC - I know that anything I share online can be seen by others.</p> <p>EC - I choose websites, apps and games that are appropriate for my age.</p> <p>ED - I can help my friends make good choices about the time they spend online.</p> <p>ED - I comment positively and respectfully online</p> <p>EF - I can talk about why I need to ask a trusted adult before downloading files and games from the Internet.</p>	<p>PA - I can use logical thinking to solve an open-ended problem by breaking it up into smaller parts.</p> <p>PB - I can use an efficient procedure to simplify a program.</p> <p>PC - I can use a sensor to detect a change which can select an action within my program.</p> <p>PE - I know that I need to keep testing my program while I am putting it together.</p> <p>PE - I can use a variety of tools to create a program.</p> <p>PF - I can recognise an error in a program and debug it.</p> <p>PG - I recognise that an algorithm will help me to sequence more complex programs.</p> <p>PH - I recognise that using algorithms will also help solve problems in other learning such as Maths, Science and Design and Technology.</p>	<p>HA - I can organise data in different ways.</p> <p>HB - I can collect data and identify where it could be inaccurate.</p> <p>HC - I can plan, create and search a database to answer questions.</p> <p>HD - I can choose the best way to present data to my friends.</p> <p>HE - I can use a data logger to record and share my readings with my friends.</p>	<p>MA - I can use photos, video and sound to create an atmosphere when presenting to different audiences</p> <p>MB - I am confident to explore new media to extend what I can achieve.</p> <p>MB - I can change the appearance of text to increase its effectiveness.</p> <p>MB - I can create, modify and present documents for a particular purpose.</p> <p>MD - I can use a keyboard confidently and make use of a spellchecker to write and review my work.</p> <p>ME - I can use an appropriate tool to share my work and collaborate online.</p> <p>ME - I can give constructive feedback to my friends to help them improve their work and refine my own work.</p>	<p>TA - I can tell you whether a resource I am using is on the Internet, the school network or my own device.</p> <p>TB - I can identify key words to use when searching safely on the World Wide Web.</p> <p>TC - I think about the reliability of information I read on the World Wide Web.</p> <p>TF - I can tell you how to check who owns photos, text and clipart.</p> <p>TG - I can create a hyperlink to a resource on the World Wide Web.</p> <p>TH - I can recognise that websites use different methods to advertise products</p>

Year Group	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
	<p><u>National Curriculum - KS2</u></p> <p>Pupils should be taught to:</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 ♣ 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 ♣ 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 					

KS2 - Year 3	♣ use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.				
	<u>Tribal Tales</u>	<u>Tremors</u> <u>Multimedia</u> <ul style="list-style-type: none"> ➤ Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating 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 <p>(MA, MB, ME, MF)</p> <p>Green screening Presenting information</p>	<u>Mighty Metals</u> <u>Handling Data</u> <ul style="list-style-type: none"> ➤ Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating 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. <p>(HA-E)</p> <p>Morfo Creating spreadsheets E-Safety Day</p>	<u>Predator</u> <u>Technology in our Lives</u> <u>Programming</u> <u>Multi Merdia</u> <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. > 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. <p>(TA, TB, TC, TF)</p>	<u>I am Warrior</u>

				<div>(PA-G) (MD) Research Programming bird of prey Recognising suitable information Workshop - Multimedia MORFO</div>	
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E Safety	Programming	Handling Data	Multimedia	Technology in our Lives
<p>EA - I choose a secure password and screen name when I am using a website.</p> <p>EB - I can talk about the ways I can protect myself and my friends from harm online</p> <p>EB - I use the safety features of websites as well as reporting concerns to an adult.</p> <p>EC - I know that anything I share online can be seen by others.</p> <p>EC - I choose websites, apps and games that are appropriate for my age.</p> <p>ED - I can help my friends make good choices about the time they spend online.</p> <p>ED - I comment positively and respectfully online</p> <p>EF - I can talk about why I need to ask a trusted adult before downloading files and games from the Internet.</p>	<p>PA - I can use logical thinking to solve an open-ended problem by breaking it up into smaller parts.</p> <p>PB - I can use an efficient procedure to simplify a program.</p> <p>PC - I can use a sensor to detect a change which can select an action within my program.</p> <p>PE - I know that I need to keep testing my program while I am putting it together.</p> <p>PE - I can use a variety of tools to create a program.</p> <p>PF - I can recognise an error in a program and debug it.</p> <p>PG - I recognise that an algorithm will help me to sequence more complex programs.</p> <p>PH - I recognise that using algorithms will also help solve problems in other learning such as Maths, Science and Design and Technology.</p>	<p>HA - I can organise data in different ways.</p> <p>HB - I can collect data and identify where it could be inaccurate.</p> <p>HC - I can plan, create and search a database to answer questions.</p> <p>HD - I can choose the best way to present data to my friends.</p> <p>HE - I can use a data logger to record and share my readings with my friends.</p>	<p>MA - I can use photos, video and sound to create an atmosphere when presenting to different audiences</p> <p>MB - I am confident to explore new media to extend what I can achieve.</p> <p>MB - I can change the appearance of text to increase its effectiveness.</p> <p>MB - I can create, modify and present documents for a particular purpose.</p> <p>MD - I can use a keyboard confidently and make use of a spellchecker to write and review my work.</p> <p>ME - I can use an appropriate tool to share my work and collaborate online.</p> <p>ME - I can give constructive feedback to my friends to help them improve their work and refine my own work.</p>	<p>TA - I can tell you whether a resource I am using is on the Internet, the school network or my own device.</p> <p>TB - I can identify key words to use when searching safely on the World Wide Web.</p> <p>TC - I think about the reliability of information I read on the World Wide Web.</p> <p>TF - I can tell you how to check who owns photos, text and clipart.</p> <p>TG - I can create a hyperlink to a resource on the World Wide Web.</p> <p>TH - I can recognise that websites use different methods to advertise products</p>

Year Group	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
	<p>National Curriculum - KS2 Pupils should be taught to:</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 ♣ 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 ♣ 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>♣ use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.</p>						
KS2 - Year 4	<p><u>Gods & Mortals</u></p> <p><u>Multimedia</u></p> <ul style="list-style-type: none"> ➤ Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating 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. <p>(MA, MB, ME, MF)</p> <p>Green screening</p>	Potions	<p><u>Traders & Raiders</u></p> <p><u>Programming</u></p> <p><u>Multimedia</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 and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information. <p>(PA-G)</p>	<p><u>Bottoms, Burps & Bile</u></p> <p><u>Programming</u></p> <p><u>Handling Data</u></p> <ul style="list-style-type: none"> ➤ Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating 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. ➤ 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 	<p><u>Blue Abyss</u></p> <p><u>Programming</u></p> <p><u>Handling Data</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. ➤ Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content. ➤ Select, use and combine a variety of software (including Internet services) on a range of digital devices to design and 	<p><u>Misty Mountain</u></p> <p><u>Sierra</u></p> <p><u>Handling Data</u></p> <ul style="list-style-type: none"> ➤ Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating 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. <p>(HA-E)</p> <p>Data Handling</p>

			<p>(MA, MB)</p> <p><i>Animation</i> <i>Book creator</i> <i>Digital images</i></p> <p><i>E-Safety Day</i></p>	<p>variables and various forms of input and output.</p> <p>➤ Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs.</p> <p>(HA-E) (PA-G)</p> <p><i>Digital images</i> <i>Editing images of teeth</i> <i>Algorithms flow diagram</i> <i>Imovie</i></p>	<p>create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information.</p> <p>(HA-E) (PA-G)</p> <p><i>Programming Presentations</i></p> <p><i>Workshop - Multimedia GARAGE BAND</i></p>	
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<p>Additional Lessons Covering...</p>	<p><u>E-Safety</u> (EA -G)</p> <ul style="list-style-type: none"> ➤ I choose a secure password and screen name when I am using a website. ➤ I can talk about the ways I can protect myself and my friends from harm online. ➤ I use the safety features of websites as well as reporting concerns to an adult. ➤ I know that anything I share online can be seen by others. ➤ I choose websites, apps and games that are appropriate for my age. ➤ I can help my friends make good choices about the time they spend online. ➤ I can talk about why I need to ask a trusted adult before downloading files and games from the Internet. ➤ I comment positively and respectfully online <p><u>Programming</u> (PH)</p> <ul style="list-style-type: none"> ➤ I recognise that using algorithms will also help solve problems in other learning such as Maths, Science and Design and Technology. <p><u>Multimedia</u>, (MD)</p> <ul style="list-style-type: none"> ➤ I can use a keyboard confidently and make use of a spellchecker to write and review my work. <p><u>Technology in our Lives</u> (TG, TH)</p> <ul style="list-style-type: none"> ➤ I can create a hyperlink to a resource on the World Wide Web. ➤ I can recognise that websites use different methods to advertise products
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E Safety	Programming	Handling Data	Multimedia	Technology in our Lives
<p>EA - I protect my password and other personal information</p> <p>EB - I can explain the consequences of sharing too much about myself online</p> <p>EB - I support my friends to protect themselves and make good choices online, including reporting concerns to an adult.</p> <p>EC - I can explain the consequences of spending too much time online or on a game.</p> <p>ED - I can explain the consequences to myself and others of not communicating kindly and respectfully.</p> <p>EF - I protect my computer or device from harm on the Internet</p>	<p>PA - I can deconstruct a problem into smaller steps, recognising similarities to solutions used before.</p> <p>PB - I can explain and program each of the steps in my algorithm.</p> <p>PC - I can recognise when I need to use a variable to achieve a required output.</p> <p>PD - I can evaluate the effectiveness and efficiency of my algorithm while I continually test the programming of that algorithm.</p> <p>PE - I can use a variable and operators to stop a program</p> <p>PF - I can use logical reasoning to detect and correct errors in a algorithms and programs</p> <p>PE - I can use different inputs (including sensors) to control a device or onscreen action and predict what will happen.</p>	<p>HA - I can plan the process needed to investigate the world around me</p> <p>HB - I can select the most effective tool to collect data for my investigation</p> <p>HB - I can check the data I collect for accuracy and plausibility.</p> <p>HC - I can interpret the data I collect.</p> <p>HD - I can present the data I collect in an appropriate way</p> <p>HE - I use the skills I have developed to interrogate a database.</p>	<p>MA - I can talk about audience, atmosphere and structure when planning a particular outcome</p> <p>MB - I can confidently identify the potential of unfamiliar technology to increase my creativity.</p> <p>MC - I can combine a range of media, recognising the contribution of each to achieve a particular outcome.</p> <p>MD - I can tell you why I select a particular online tool for a specific purpose</p> <p>ME - I can be digitally discerning when evaluating the effectiveness of my own work and the work of others.</p>	<p>TA - I can tell you the Internet services I need to use for different purposes.</p> <p>TC - I can describe how information is transported on the Internet.</p> <p>TC - I can check the reliability of a website.</p> <p>TD - I can talk about the way search results are selected and ranked.</p> <p>TF - I can tell you about copyright and acknowledge the sources of information that I find online</p> <p>TE - I know that websites can use my data to make money and target their advertising.</p> <p>TI - I can select an appropriate tool to communicate and collaborate online</p>

Year Group	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
	<p>National Curriculum - KS2</p> <p>Pupils should be taught to:</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 ✦ 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 ✦ 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. 					

<p>KS2 - Year 5</p>	<p><u>Stargazers</u> <u>Multimedia</u></p> <ul style="list-style-type: none"> ➤ Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating 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. <p>(MA-F)</p> <p><i>Green screening - diary entry</i></p>	<p><u>Revolution</u> <u>Handling Data</u></p> <ul style="list-style-type: none"> ➤ Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating 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 <p>(HA-E)</p> <p><i>Digital Photography Data collection</i></p>	<p><u>Peasants, Princes and Pestilence</u> <u>Multimedia</u></p> <ul style="list-style-type: none"> ➤ Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating 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 <p>(MA-F)</p> <p><i>Creating own trailer Collecting, evaluating and presenting data and information</i></p> <p><i>E-Safety Day Workshop - Digital Design SKETCHUP</i></p>	<p><u>Frozen Kingdom</u> <u>Multimedia</u> <u>Technology in our Lives</u></p> <ul style="list-style-type: none"> ➤ Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating 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 ➤ 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. <p>(MA-F) (TA-I)</p> <p><i>IMovie - NC Report</i></p>	<p><u>Scream Machine</u> <u>Programming</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. ➤ 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. ➤ 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. <p>(PA-F)</p> <p><i>Designing a theme park - Minecraft Digital photography CYOAS - hyperlinking Researching</i></p>
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E Safety	Programming	Handling Data	Multimedia	Technology in our Lives
<p>EA - I protect my password and other personal information</p> <p>EB - I can explain the consequences of sharing too much about myself online</p> <p>EB - I support my friends to protect themselves and make good choices online, including reporting concerns to an adult.</p> <p>EC - I can explain the consequences of spending too much time online or on a game.</p> <p>ED - I can explain the consequences to myself and others of not communicating kindly and respectfully.</p> <p>EE - I protect my computer or device from harm on the Internet</p>	<p>PA - I can deconstruct a problem into smaller steps, recognising similarities to solutions used before.</p> <p>PB - I can explain and program each of the steps in my algorithm.</p> <p>PC - I can recognise when I need to use a variable to achieve a required output.</p> <p>PD - I can evaluate the effectiveness and efficiency of my algorithm while I continually test the programming of that algorithm.</p> <p>PE - I can use a variable and operators to stop a program</p> <p>PF - I can use logical reasoning to detect and correct errors in a algorithms and programs</p> <p>PF - I can use different inputs (including sensors) to control a device or onscreen action and predict what will happen.</p>	<p>HA - I can plan the process needed to investigate the world around me</p> <p>HB - I can select the most effective tool to collect data for my investigation</p> <p>HB - I can check the data I collect for accuracy and plausibility.</p> <p>HC - I can interpret the data I collect.</p> <p>HD - I can present the data I collect in an appropriate way</p> <p>HE - I use the skills I have developed to interrogate a database.</p>	<p>MA - I can talk about audience, atmosphere and structure when planning a particular outcome</p> <p>MB - I can confidently identify the potential of unfamiliar technology to increase my creativity.</p> <p>MC - I can combine a range of media, recognising the contribution of each to achieve a particular outcome.</p> <p>MD - I can tell you why I select a particular online tool for a specific purpose</p> <p>ME - I can be digitally discerning when evaluating the effectiveness of my own work and the work of others.</p>	<p>TA - I can tell you the Internet services I need to use for different purposes.</p> <p>TC - I can describe how information is transported on the Internet.</p> <p>TC - I can check the reliability of a website.</p> <p>TD - I can talk about the way search results are selected and ranked.</p> <p>TE - I can tell you about copyright and acknowledge the sources of information that I find online</p> <p>TE - I know that websites can use my data to make money and target their advertising.</p> <p>TI - I can select an appropriate tool to communicate and collaborate online</p>

Year Group	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
	<p><u>National Curriculum - KS2</u></p> <p>Pupils should be taught to:</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 ♣ 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 ♣ 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 					

KS2 - Year 6	✦ use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.				
	<p><u>Hola Mexico</u> <u>Multimedia</u></p> <ul style="list-style-type: none"> ➤ Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating 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 <p>(MA-F)</p> <p><i>Powerpoint and Bookcreator to create images</i></p>	<p><u>A Child's War</u></p>	<p><u>Off with their Head</u> <u>Handling Data</u></p> <ul style="list-style-type: none"> ➤ Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating 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. <p>(HA-E)</p> <p><i>Data handling</i></p> <p><i>E-Safety Day</i></p>	<p><u>Visual Literacy</u> <u>(Alma, Titanium, Francis)</u> <u>Programming</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. <p>(PA-F)</p>	<p><u>Gallery Rebels</u> <u>Programming</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. <p>(PA-F)</p> <p><i>Workshop - Programming</i></p>

Additional
Lessons
Covering...

E-Safety (EA-F)

- I protect my password and other personal information.
- I can explain the consequences of sharing too much about myself online.
- I support my friends to protect themselves and make good choices online, including reporting concerns to an adult.
- I can explain the consequences of spending too much time online or on a game.
- I can explain the consequences to myself and others of not communicating kindly and respectfully.
- I protect my computer or device from harm on the Internet.

Technology in our Lives (TA-I)

- I can tell you the Internet services I need to use for different purposes.
- I can describe how information is transported on the Internet.
- I can check the reliability of a website.
- I can talk about the way search results are selected and ranked.
- I can tell you about copyright and acknowledge the sources of information that I find online
- I know that websites can use my data to make money and target their advertising.
- I can select an appropriate tool to communicate and collaborate online