



Progression Framework
Computing
Year Five

Progression Framework for Computing, Year Five

Domain: Computer Science

Upper Key Stage Two

Year Five

Sub-strand	Progression statement	What to look for guidance (working towards expectation)	What to look for guidance (Meeting expectation)	What to look for guidance (Exceeding expectation)
Problem solving	Design, write and debug programs that accomplish specific goals	<p>The child can design and write a program using a block language based on their own ideas.</p> <p>The child can design a program of their own and write this in a block-based language such as Scratch. The program need not be complex (a simple game or a turtle graphics program would suffice) but it should be accomplished with a degree of independent working.</p> <p><i>(E.g. In 5.1, design and write their own game in Scratch. In 5.3, design and program their own geometric pattern in Scratch.)</i></p>	<p>The child can design, write and debug a program using a block language based on their own ideas.</p> <p>The child can design a program of their own and write this in a block-based language such as Scratch. The child can test and debug their code, explain what bugs they found and how they fixed them. The program need not be complex (a simple game or a turtle graphics program would suffice) but it should be accomplished with a degree of independent working.</p> <p><i>(E.g. In 5.1, design, write and debug their own game in Scratch. In 5.3 design, program and debug their own geometric pattern in Scratch.)</i></p>	<p>The child can design, write and debug a program using a block language based on their own ideas; the child can use iterative development to make improvements.</p> <p>The child can design a program of their own and write this in a block-based language such as Scratch. The child can test and debug their code, explain what bugs they found and how they fixed them. The child can then review their code, decide for themselves how this might be extended or improved, and then implement, test and debug these modifications. The program should be accomplished with a degree of independent working.</p> <p><i>(E.g. In 5.1, design, write and debug their own game in Scratch. In 5.3, design, program and debug their own geometric pattern in Scratch. They should use iterative development approaches to make improvements to these.)</i></p>
	Controlling or simulating physical systems.	<p>The child can understand that physical systems can be controlled by a computer.</p> <p>The child can give some examples of physical systems that are controlled by computers - these could include real-world examples such as engine management systems, refrigerators, DVD players or their</p>	<p>The child can experiment with computer control applications.</p> <p>The child can use simple computer control and/or sensors with products they make in design and technology, perhaps using Lego WeDo kits, MaKey MaKey or similar.</p>	<p>The child can develop their own simple computer control application.</p> <p>The child can add computer control and/or sensors to products they design and make in design and technology, perhaps using Lego WeDo kits, MaKey MaKey or similar.</p>

Progression Framework for Computing, Year Five

		own products made in design and technology.		
	Solve problems by decomposing them into smaller parts.	<p>The child can identify component parts of a problem.</p> <p>When given a complex problem or project, the child can identify the component parts of the problem or project and explain how they might tackle these in order to solve the original problem or complete the given project. Projects might include designing a computer game, creating a website or designing a building.</p> <p><i>(E.g. In 5.1, think about the different parts of a game. In 5.4, think about the different elements that make up a web page or a website. In 5.6, think of the different parts of a building.)</i></p>	<p>The child can plan a solution to a problem using decomposition.</p> <p>The child can take a complex problem, identify component parts, use decomposition to break this problem down and then plan how they can solve the problem by working through the elements they have identified. Projects could include developing a computer game, creating a website or designing a building.</p> <p><i>(E.g. In 5.1, use decomposition to plan how they will create their game. In 5.4, use decomposition to plan how to make a website. In 5.6, use decomposition to plan how to create a virtual art gallery.)</i></p>	<p>The child can solve problems using decomposition, tackling each part separately.</p> <p>The child can take a complex problem, identify component parts, use decomposition to break this problem down and then plan how they can solve the problem by working through the elements they have identified. They can then use their plan to solve the original problem. Projects could include developing a computer game, creating a website or designing a building.</p> <p><i>(E.g. In 5.1, tackle the parts of their game separately. In 5.4, work together to tackle the different elements of a website separately. In 5.6, tackle each of the different stages of their gallery.)</i></p>
Programming	Use sequence, selection, and repetition in programs; work with variables.	<p>The child can use sequence and repetition in programs.</p> <p>The child's program, typically written in Scratch, or similar, should include sequences of commands or blocks and some repetition. Repetition would typically be for a fixed number of times, but might also include exit conditions (e.g. repeat...until...). Programs might include turtle graphics or a simple game.</p> <p><i>(E.g. In 5.1, their game should use sequence and repetition. In 5.3, their turtle graphics program should use sequence and repetition.)</i></p>	<p>The child can use sequence, selection and repetition in programs.</p> <p>The child's program, typically written in Scratch, or similar, should include sequences of commands or blocks, some repetition and selection. Repetition might include exit conditions (e.g. repeat...until...). Selection would normally be of an if...then or if...then...else type. At this level, expect the child to be able to combine repetition with selection. Programs might include a computer game or a turtle graphics design.</p> <p><i>(E.g. In 5.1, their game program should include sequence, selection and repetition.)</i></p>	<p>The child can use sequence, selection, repetition and variables in programs.</p> <p>The child's program, typically written in Scratch, or similar, should include sequences of commands or blocks, repetition, selection and variables. Repetition might include exit conditions (e.g. repeat...until...) and perhaps a counter-variable for iteration. Selection would normally be of an if...then or if...then...else type. At this level, expect the child to be able to combine repetition with selection and variables. Programs might include a computer game and a more complex turtle graphics design.</p> <p><i>(E.g. In 5.1, use sequence, selection and repetition in their game, and keep track of score, lives or time remaining using a variable.)</i></p>
	Work with various forms of input and output.	<p>The child can write a program that accepts keyboard input and produces on-screen output.</p>	<p>The child can write a program that accepts keyboard and mouse input and produces output on screen and through speakers.</p>	<p>The child can show an awareness of the importance of good user-interface design when developing a program.</p>

Progression Framework for Computing, Year Five

		<p>In Scratch (or similar), the child can write a program that uses the keyboard to control the behaviour of a sprite on screen. This might be used as the basis for a simple computer game.</p> <p><i>(E.g. In 5.1, use the keyboard for control, producing output on screen.)</i></p>	<p>In Scratch (or similar), the child can create a computer game using the keyboard or mouse for input and the screen and speakers for output.</p> <p><i>(E.g. In 5.1, use the keyboard and/or mouse for input for their game, produce output on screen and use sound effects, music or narration.)</i></p>	<p>In developing their program, the child should take account of the needs of their users and be able to explain how these have influenced design and development. They should test their program with users, making changes on the basis of feedback received.</p> <p><i>(E.g. In 5.1 explain how they have developed the user interface for their game, taking into account its intended users; discuss how they have tested this. In 5.4 and 5.5, discuss the design elements of their website and blog. In 5.6, demonstrate how their virtual gallery has been designed with its users in mind.)</i></p>
Logical Thinking	Use logical reasoning to explain how some simple algorithms work.	<p>The child can predict the outcomes of a rule-based algorithm.</p> <p>When provided with rule-based algorithms (e.g. for a computer game) the child should be able to predict what would happen under a range of circumstances.</p> <p><i>(E.g. In 5.1, predict what happens in their game.)</i></p>	<p>The child can explain a rule-based algorithm in their own words.</p> <p>When provided with a rule-based algorithm (e.g. for a computer game), the child should be able to explain what it does and how it works, in their own words.</p> <p><i>(E.g. In 5.1, explain the rules of their game in their own words.)</i></p>	<p>The child can give a clear and precise explanation of a rule-based algorithm.</p> <p>When provided with a rule-based algorithm (e.g. for a computer game), the child should draw on logical reasoning to give a clear and precise explanation of what it does and how it works.</p> <p><i>(E.g. In 5.1, give a clear and precise explanation for the rules of their game.)</i></p>
	Use logical reasoning to detect and correct errors in algorithms and programs.	<p>The child can spot errors in algorithms.</p> <p>When given an algorithm for a particular purpose, e.g. a rule-based algorithm for a computer game or a sequence of steps to draw a geometric pattern, the child can identify possible errors in their algorithm.</p> <p><i>(E.g. In 5.1, spot errors in the rules of their game. In 5.3, spot errors in the algorithm for their geometric pattern.)</i></p>	<p>The child can use logical reasoning to detect errors in algorithms.</p> <p>When given an algorithm for a particular purpose, e.g. a rule-based algorithm for a computer game or a sequence of steps to draw a geometric pattern, the child can use logical reasoning to identify possible errors in the algorithm, explaining why they believe the algorithm is incorrect.</p> <p><i>(E.g. In 5.1, spot and correct errors in the rules of their game. In 5.3, spot and correct errors in the algorithm for their geometric pattern.)</i></p>	<p>The child can use logical reasoning to detect and correct errors in algorithms.</p> <p>When given an algorithm for a particular purpose, e.g. a rule-based algorithm for a computer game or a sequence of steps to draw a geometric pattern, the child can use logical reasoning to identify possible errors in the algorithm, explaining why they believe the algorithm is incorrect. The child can use logical reasoning to suggest possible corrections to the algorithm, explaining why these would correct the bug they identified.</p> <p><i>(E.g. In 5.1, use logical reasoning to detect and correct errors in the rules of their game. In 5.3, use logical reasoning to detect and correct errors in the algorithm for their geometric pattern.)</i></p>
	Understand computer	The child can understand the internet as a network of networks.	The child can understand how data routing works on the internet.	The child can explain how internet routing adapts to faults in the network .

Progression Framework for Computing, Year Five

	<p>networks including the internet.</p>	<p>The child can give some explanation of how the internet allows computers on different networks (e.g. at school and at home) to communicate with one another.</p> <p><i>(E.g. In 5.2, understand that multiple networks may be involved in passing encrypted messages. In 5.4 and 5.5, recognise that multiple networks may be involved in providing web-based content.)</i></p>	<p>The child can give a coherent explanation of how data packets are routed from one computer to another on a separate network, which is also connected to the internet.</p> <p><i>(E.g. In 5.2, understand how encrypted messages are routed on the internet. In 5.4 and 5.5, understand how web pages are routed on the internet.)</i></p>	<p>The child can give a coherent explanation of how data packets are routed from one computer to another on a separate network, which is also connected to the internet, and how this routing would change if the network were to develop a fault.</p> <p><i>(E.g. In 5.2, explain how encrypted messages could still be transmitted if there were faults on the network. In 5.4 and 5.5, explain how web pages could still be transmitted if there were faults on the network.)</i></p>
	<p>Understand how networks can provide multiple services, such as the world wide web.</p>	<p>The child can show an understanding of basic HTML (hypertext mark-up language).</p> <p>The child can explain how a web page is transmitted in the form of HTML code. The child should be able to use simple tools (e.g. X-Ray Goggles) to view and edit the HTML code for a web page.</p> <p><i>(E.g. In 5.4 and 5.5, recognise that the web pages they are creating are transmitted and stored as HTML.)</i></p>	<p>The child can understand how web pages are created and transmitted.</p> <p>The child can explain how HTML is used to create a web page and how it is transmitted as packets of digital data over the internet. The child should have an awareness of simple HTML tags (such as qh1G and qpG) for marking up a web page.</p> <p><i>(E.g. In 5.4 and 5.5, gain experience of creating web pages using content management systems and understand how these pages are transmitted via the internet.)</i></p>	<p>The child can show an understanding of how content management systems are used on the web.</p> <p>The child can explain some differences between static web pages written as simple HTML files and those generated from a database of content elements by content management systems such as WordPress, MediaWiki or Moodle.</p> <p><i>(E.g. In 5.4 and 5.5, recognise that the content of the pages they create is stored in a database, and programs on the web server generate the transmitted HTML from this when pages are requested.)</i></p>

Progression Framework for Computing, Year Five

Domain: Digital Literacy

Upper Key Stage Two

Year Five

Sub-strand	Progression statement	What to look for guidance (working towards expectation)	What to look for guidance (Meeting expectation)	What to look for guidance (Exceeding expectation)
E-Safety	Use technology safely, respectfully and responsibly.	<p>The child can demonstrate that they can act responsibly when using computers.</p> <p>The child can act responsibly when using computers. E.g. They appreciate the importance of using encryption to keep information private and the need for strong passwords to protect their identity. They should act responsibly when creating web pages or writing blog posts.</p> <p><i>(E.g. In 5.2, recognise the importance of encrypting private information and using strong passwords. In 5.4 and 5.5, act responsibly when creating pages or blog posts.)</i></p>	<p>The child can demonstrate that they can act responsibly when using the internet.</p> <p>The child can act responsibly when using the internet. E.g. They should act responsibly when participating in an online community, such as the Scratch community, if permitted to do so. They should demonstrate that they understand the importance of encrypted (HTTPS) connections when browsing the web and of using strong passwords to protect their identity online. They should act responsibly when creating, editing or commenting on web pages or blog posts.</p> <p><i>(E.g. In 5.1, contribute positively to the Scratch community, if permitted to do so. In 5.2, recognise the importance of encrypting private information when communicating online and of using strong passwords. In 5.4 and 5.5, act responsibly when creating, editing or commenting on pages or blog posts.)</i></p>	<p>The child can show that they can think through the consequences of their actions when using digital technology.</p> <p>The child can discuss likely and potential consequences of their actions when using digital technology in a range of contexts. Contexts might include participation in online communities, such as the Scratch community, if they are permitted to do so; the use (or non-use) of encryption, of using weak passwords or sharing their passwords with others; of creating particular content for a class website or blog.</p> <p><i>(E.g. In 5.1, consider the consequences of uploads and comments to the Scratch community. In 5.2, consider the consequences of their own and others' use (or non-use) of encryption when communicating online and of setting weak passwords. In 5.4 and 5.5, recognise the consequences of creating particular content in a class website or blog.)</i></p>
	Recognise acceptable/unacceptable behaviour.	<p>The child can understand the difference between acceptable and unacceptable behaviour when using digital technology.</p> <p>The child can discuss the difference between acceptable and unacceptable behaviour when using digital technology in a range of contexts. Contexts could include the Scratch website, or other online communities; using</p>	<p>The child can discuss the consequences of particular behaviours when using digital technology.</p> <p>The child can discuss the likely or possible consequences of particular behaviours when using digital technology in a range of contexts. Contexts could include the Scratch website, or other online communities; using</p>	<p>The child can identify principles underpinning acceptable use of digital technologies.</p> <p>The child can identify some principles underpinning acceptable behaviour when using technologies in a range of contexts. Contexts could include the Scratch website, or other online communities; using cryptography and passwords; creating websites or writing blog posts.</p>

Progression Framework for Computing, Year Five

		<p>cryptography and passwords; creating websites or writing blog posts.</p> <p><i>(E.g. In 5.1, understand the differences between acceptable and unacceptable behaviour in the Scratch community. In 5.2, understand the differences between acceptable and unacceptable behaviour when using cryptography and when using passwords. In 5.4 and 5.5, understand the differences between acceptable and unacceptable behaviour when developing online content for a website or blog.)</i></p>	<p>cryptography and passwords; creating websites or writing blog posts.</p> <p><i>(E.g. In 5.1, discuss the consequences of particular behaviours in the Scratch community. In 5.2, discuss the consequences of particular behaviours when using cryptography and when using passwords. In 5.4 and 5.5, discuss the consequences of particular behaviours when developing online content for a website or blog.)</i></p>	<p><i>(E.g. In 5.1, identify principles underpinning acceptable behaviour in the Scratch community. In 5.2, identify principles underpinning acceptable behaviour when using cryptography and when using passwords. In 5.4 and 5.5, identify principles underpinning acceptable behaviour when developing online content for a website or blog.)</i></p>
	<p>Know a range of ways to report concerns and inappropriate behaviour.</p>	<p>Know who to talk to about concerns and inappropriate behaviour at home or in school.</p> <p>Pupils should know to report inappropriate behaviour when using technology in school to their teacher, the network manager or another trusted adult, and that they can discuss any concerns they have with their teacher or other trusted adults in school. They should also know that any concerns over, or inappropriate behaviour with, digital technology at home can be discussed with their parents, with you or with another trusted adult.</p> <p><i>(E.g. Know to tell a teacher about any concerns or inappropriate behaviour in any units. Know that concerns in relation to the Scratch community can be reported to the community moderators (units 5.1 and 5.3). Know that they should talk to their parents about concerns and inappropriate behaviour outside school.)</i></p>	<p>Know how to report concerns and inappropriate behaviour in a range of contexts.</p> <p>Pupils should know how to report inappropriate behaviour when using technology in school: preferably this will be to their teacher, the network manager or another trusted adult. They should know how to report any concerns over inappropriate behaviour with digital technology at home. Preferably this would be through discussion with their parents, with you or with another trusted adult. Pupils should also know how to report inappropriate behaviour to those running websites which they regularly use, and to ChildLine, CEOP or to the police.</p> <p><i>(E.g. Know to tell a teacher about any concerns or inappropriate behaviour in any units. Know that concerns in relation to the Scratch community can be reported to the community moderators (units 5.1 and 5.3). In unit 5.4 and 5.5, know that concerns over illegal web content can be reported to the police. Know that they should talk to their parents about concerns and inappropriate behaviour outside school.)</i></p>	<p>Know a range of ways to report concerns and inappropriate behaviour in a variety of contexts.</p> <p>Pupils should know how to report inappropriate behaviour when using technology in school: typically this will be to their teacher, the network manager or another trusted adult. They should know how to report any concerns over inappropriate behaviour with digital technology at home. Preferably this would be through discussion with their parents, with you or with another trusted adult. Pupils should also know how to report inappropriate behaviour to those running websites which they regularly use, and to ChildLine, CEOP or the police. Pupils should know that illegal content or activities can be reported to the police.</p> <p><i>(E.g. Know to tell a teacher about any concerns or inappropriate behaviour in any units. Know that concerns in relation to the Scratch community can be reported to the community moderators (units 5.1 and 5.3). In unit 5.4 and 5.5, know that concerns over illegal web content can be reported to the police, but be aware that other countries have different legal codes. Know that they should talk to their parents about concerns and inappropriate behaviour outside school. Know that they can also discuss concerns with CEOP or ChildLine)</i></p>

Progression Framework for Computing, Year Five

	<p>Be discerning in evaluating digital content.</p>	<p>The child can decide whether digital content is relevant for a given purpose or question.</p> <p>The child can form a judgement about whether digital content, such as sound and graphics for a game or media for a web page or 3D model, is appropriate for finding out the answer to a question they have or for a given purpose.</p> <p><i>(E.g. In 5.1, decide whether particular sound and graphics are appropriate for their game.</i></p> <p><i>In 5.4, decide whether particular content is relevant to the purpose of the web page they are developing.</i></p> <p><i>In 5.6, decide whether particular media would be suitable for their virtual gallery.)</i></p>	<p>The child can decide whether digital content is reliable and unbiased.</p> <p>The child can discuss whether particular content (such as a web page, other children's pages or blog posts) is reliable and whether it has been written from a neutral point of view. They should be able to spot some examples of bias in digital content.</p> <p><i>(E.g. In 5.4, decide whether external content is reliable and unbiased before using it in their own web page.</i></p> <p><i>In 5.4 and 5.5, comment on the reliability and bias of others' pages or posts.)</i></p>	<p>The child can form an opinion about the effectiveness of digital content.</p> <p>Taking into account the intended audience and purpose of the content, the child should be able to form a judgement, and provide reasons, for the extent to which they consider digital content to be effective. Content could be a game or media, their own or their peers' artwork, their own or classmates' pages or posts or a 3D model.</p> <p><i>(E.g. In 5.1, form a view of the effectiveness of their game and the media they use in it.</i></p> <p><i>In 5.3, form an opinion about how effective their artwork is.</i></p> <p><i>In 5.4 and 5.5, form an opinion about how effective their own and their classmates' pages and posts are.</i></p> <p><i>In 5.6, form an opinion about how effective their virtual gallery is.)</i></p>
	<p>Understand the opportunities networks offer for communication and collaboration.</p>	<p>The child can contribute to a class website or blog.</p> <p>The child can make a positive contribution to a shared website or class blog.</p> <p><i>(E.g. Contribute to the class website in 5.4 and blog in 5.5.)</i></p>	<p>The child can work collaboratively with classmates on a class website or blog.</p> <p>The child can work productively and positively with others when developing a shared website or contributing to a class blog.</p> <p><i>(E.g. Work collaboratively with classmates on the class website in 5.4 and the class blog in 5.5.)</i></p>	<p>The child can provide constructively critical feedback to classmates in a class website or blog project.</p> <p>Showing appropriate sensitivity, the child can provide constructive, critical feedback to another, e.g. on others' contributions to a shared website or a class blog.</p> <p><i>(E.g. Provide constructively critical feedback to one another on contributions to the class website in 5.4 and blog in 5.5.)</i></p>

Progression Framework for Computing, Year Five

Domain: Information Technology

Upper Key Stage Two

Year Five

Sub-strand	Progression statement	What to look for guidance (working towards expectation)	What to look for guidance (Meeting expectation)	What to look for guidance (Exceeding expectation)
Creating Content	Select, use and combine a variety of software (including internet services) on a range of digital devices.	<p>The child can use and combine a range of programs on a computer.</p> <p>The child can use multiple programs on laptop or tablet computers to achieve particular goals. E.g. They might use an audio editor or image editor to develop media content for a computer game; use image or video editing software to develop media content for a web page or blog; use image-editing software to develop images to use in 3D design software.</p> <p><i>(E.g. In 5.1, make use of audio and image content in Scratch. In 5.4 and 5.5, add media content to their web pages or blog. In 5.6, add images to the walls of their virtual gallery.)</i></p>	<p>The child can use and combine a range of programs on multiple devices.</p> <p>The child can use multiple digital devices (such as tablets and laptops or digital cameras and laptops) to achieve particular goals. The devices might include web servers, allowing them to use cloud-based applications. E.g. They might use local media in conjunction with a cloud-based programming platform, such as Scratch; digital cameras and video cameras to capture content to use on an externally hosted website or blog; a digital camera to take photos they could import into 3D design software on a laptop.</p> <p><i>(E.g. In 5.1, combine local media with web-based Scratch programs. In 5.4 and 5.5, combine local media, including that captured using portable technology, with a web-based content management system. In 5.6, use digital photographs and other media in a virtual art gallery.)</i></p>	<p>The child can select, use and combine a range of programs on multiple devices.</p> <p>The child can choose for themselves from a range of available programs on laptops, tablets or cloud-based services to achieve particular goals. E.g. They might select and use an audio editor or image editor to develop media content for a computer game; use their own choice of image or video editing software to develop media content for a web page or blog; use their own choice of image-editing software to develop images to use in 3D design software. The child should be able to use multiple digital devices (such as tablets and laptops or digital cameras and laptops) to meet their given goals.</p> <p><i>(E.g. In 5.1, choose how they will develop graphics and sound for their game. In 5.4 and 5.5, choose how they will develop original media for their web pages or blogs. In 5.6, choose how they will create content for their gallery.)</i></p>
	Design and create a range of programs, systems and content that accomplish given goals.	<p>The child can design and create programs on a computer.</p> <p>The child can design a program of their own and write this in a block-based language such as Scratch. The program need not be complex - a simple game or a turtle graphics program would suffice.</p>	<p>The child can design and create programs on a computer in response to a given goal.</p> <p>The child can design a program of their own in response to a given goal and write this in a block-based language such as Scratch. The program need not be complex - a simple game or a turtle graphics program would suffice,</p>	<p>The child can design and create programs on a computer in response to a given goal and paying attention to the needs of a known audience.</p> <p>With a given audience in mind, the child can design a program of their own in response to a given goal and write this in a block-based language such as Scratch. E.g. The child could design and create a computer game for a particular, known audience.</p>

Progression Framework for Computing, Year Five

		<i>(E.g. In 5.1, design and create a computer game. In 5.3, design and create a geometric pattern using turtle graphics.)</i>	but it should be accomplished with a degree of independent working. <i>(E.g. In 5.1, design and create a computer game in response to a given brief. In 5.3, design and create a geometric pattern using turtle graphics in response to a given brief.)</i>	<i>(E.g. In 5.1, design and create a computer game in response to a given brief, paying attention to the needs of the intended audience.)</i>
	Collecting, analysing, evaluating and presenting data and information.	The child can evaluate information. Working with text, audio, images or video, the child can evaluate the quality of the information, perhaps looking for bias or questioning assumptions that have been made, or considering the effectiveness of its presentation. E.g. They could work with a number of sources of information on e-safety , evaluating its quality, or they could provide constructive critical feedback to peers on the quality of their work in design projects. <i>(E.g. In 5.3, evaluate the quality of their own and others' artwork. In 5.4, evaluate the quality of the information on which they base their web page. In 5.5, provide feedback to classmates about the</i>	The child can analyse and evaluate information. Working with text, audio, images or video, the child can analyse information, perhaps summarising this. They should evaluate the quality of the information, looking for bias or questioning assumptions that have been made. E.g. They could work with information on e-safety , evaluating its quality and providing a clear and coherent summary. <i>(E.g. In 5.4, evaluate the quality of the information on which they are drawing. Analyse this to provide a clear and coherent summary on their own page.)</i>	The child can analyse and evaluate information from multiple sources. Working with text, audio, images or video, the child can analyse information, perhaps summarising this or looking for common features or exceptions. They should evaluate the quality of the information, looking for bias or questioning assumptions that have been made. E.g. They could work with a number of sources of information on e-safety, evaluating their quality and providing a clear and coherent summary, drawing on multiple sources. <i>(E.g. In 5.4, evaluate the quality of the information from the multiple sources on which they are drawing. Analyse this to provide a clear and coherent synthesis on their own page.)</i>
Searching	Use search technologies effectively.	The child can use a standard search engine to find information. The child can use a common search engine (such as Google with safe search mode locked in place) effectively, to search for particular information on the web , such as answers to questions they identify in a research project. <i>(E.g. In 5.4, use Google to search for information relevant to the topic of their web page.)</i>	The child can use filters to make more effective use of a standard search engine. The child can use a common search engine (such as Google with safe search mode locked in place) effectively, to search for particular information on the web , such as answers to questions they identify in a research project. They should use built-in search tools to filter their results, such as by time, location or reading level. <i>(E.g. In 5.4, use the filters in Google to search for information relevant to the topic of their</i>	The child can use advanced search options to make more effective use of a standard search engine. The child can use a common search engine (such as Google with safe search mode locked in place) effectively, to search for particular information on the web , such as answers to questions they identify in a research project. They should use advanced search options to filter their results, perhaps searching for a key phrase rather than keywords, using alternate keywords, or restricting their search to particular locations or domains.

Progression Framework for Computing, Year Five

			<i>web page and appropriate for its intended audience.)</i>	<i>(E.g. In 5.4, use 'advanced search' in Google to search for information relevant to the topic of their web page and appropriate for its intended audience.)</i>
	<p>Appreciate how search results are selected and ranked.</p>	<p>The child can understand that search engines use a cached copy of the crawled web to select results.</p> <p>The child can explain how a search engine creates a cached copy of the web and uses an index of this to select results.</p> <p><i>(E.g. In 5.4, understand that Google uses a cached copy of the crawlable web to generate search results.)</i></p>	<p>The child can understand that search engines use a cached copy of the crawled web to select and rank results.</p> <p>The child can explain how a search engine creates an index from a cached copy of the web and uses this to select and rank results. The child might also show an awareness of the Page Rank algorithm in which results are ranked according to the number and quality of in-bound links.</p> <p><i>(E.g. In 5.4, understand that Google uses a cached copy of the crawlable web to generate search results, using the links between the pages in the cache to determine the rank order in which results are displayed.)</i></p>	<p>The child can understand how search engines build a cached copy of the web using HTTP and web-crawler programs.</p> <p>The child can explain how a search engine creates a cached copy of the web using automated HTTP GET requests, follows links found, indexes results and uses the resulting index to select and rank results. The child might also show an awareness of the Page Rank algorithm in which results are ranked according to the number and quality of in-bound links.</p> <p><i>(E.g. In 5.4, understand that Google's web-crawler programs run on their servers simply using HTTP requests to obtain copies of web pages, using the links in these for further HTTP requests to add or update pages in their cache.)</i></p>