



**#initiative #healthylifestyles #respect #possibilities #christianvalues**

## Computing Progression of Knowledge and Skills

At Christ Church and St Peter's CofE Primary School, our teaching of Computing reflects our curriculum drivers and intent. Our **Computing** curriculum encourages all of our children to fully participate in a rapidly changing world which is transformed by access to a variety of **technology**.

We believe that **Computing** is a subject that not only stands alone, but is woven into and should be an integral part of all learning. Mastering age appropriate computing skills is essential, however we also aim to develop a thirst for learning in other subjects through the use of ICT. **Computing** within our school provides a wealth of transferable skills within both the **Computing** lesson and across the wider curriculum.

Theme	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
<b>CK1 To Code</b>		<ul style="list-style-type: none"> <li>Understand the term algorithm and debug.</li> </ul>	<ul style="list-style-type: none"> <li>Understand the term algorithm and debug.</li> </ul>	<ul style="list-style-type: none"> <li>Specify the nature of events (such as a single event or a loop).</li> </ul>	<ul style="list-style-type: none"> <li>Understand and use the duplicate function.</li> <li>Demonstrate understanding of how to combine a range of different effects to create their own quiz.</li> <li><b>Greater Depth:</b> Successfully decompose a problem into its smaller parts.</li> </ul>	<ul style="list-style-type: none"> <li>To know how to program an algorithm as a sequence of game instructions with actions and consequences.</li> <li>To know how to debug a program they have written</li> <li><b>Greater Depth:</b> Add additional effects and features, such as sound or point scoring, to</li> </ul>	<ul style="list-style-type: none"> <li>To understand why they need to select appropriate characters to match a scene.</li> <li>To know how to animate characters with movement and speech in a story scene.</li> <li>To know how to use broadcast and receive blocks correctly in code.</li> </ul>



					<ul style="list-style-type: none"><li>Analyse the software to check it is fit for purpose.</li></ul> <p>Build on their existing knowledge to experiment and innovate when programming.</p>	enhance the appeal of a game	<ul style="list-style-type: none"><li>To know how to use show and hide blocks correctly in code.</li><li>To know how to create a sequence of story scenes with added audio.</li><li>Structure and sequence the animation of characters in each scene.</li><li>To know how to use the repeat command to create animation effect.</li><li>To know how to debug a program they have written</li><li>To know how to make a character visible or invisible at the correct times.</li><li><b><u>Greater Depth:</u></b></li><li>Use rapid costume changes to give an animation effect.</li></ul>
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							<ul style="list-style-type: none"> <li>• Add interactive features to a scene. Program the use of a single button to control background changes.</li> <li>• Control smooth transitions between characters, scenes and audio.</li> </ul>
<b>CK2</b> <b>To Connect</b>	<ul style="list-style-type: none"> <li>• To identify devices that can be used to access and search the internet</li> <li>• To know to talk to an adult if there is anything on a device/PC a child is unsure about (error messages, pop ups, apps, websites or images etc.)</li> </ul>	<ul style="list-style-type: none"> <li>• To know what things counts as personal information</li> <li>• To know that a variety of devices can be used to connect to a number of people.</li> </ul>	<ul style="list-style-type: none"> <li>• To recognise an email address</li> </ul>	<p>Give examples of the risks posed by online communications.</p> <p>Understand the term 'copyright'.</p> <ul style="list-style-type: none"> <li>• To know about the reliability of information on the internet e.g. the difference between fact and opinion</li> <li>• To know to tell an adult if anything worries them online</li> <li>• To know to think before sending a comment on</li> </ul>	<p>Give examples of the risks posed by online communications.</p> <p>Understand the term 'copyright' and plagiarisms.</p> <ul style="list-style-type: none"> <li>• Make judgements in order to stay safe whilst communicating with others online</li> <li>• Identify dangers when presented with scenarios, social networking profiles etc.</li> </ul>	<p>Give examples of the risks of online communities and demonstrate knowledge of how to minimise risk and report problems.</p> <p>Understand and demonstrate knowledge that it is illegal to download copyrighted material, including music or games without express permission, form the copyright holder.</p> <p>Understand the effect of online</p>	<p>Give examples of the risks of online communities and demonstrate knowledge of how to minimise risk and report problems.</p> <p>Understand and demonstrate knowledge that it is illegal to download copyrighted material, including music or games, movie and online streams without express permission, form the copyright holder.</p>



				<p>consequences of sending/posting (link to teams communication).</p> <ul style="list-style-type: none"> <li>Recognise social networking sites and social networking features built into other things (such as online games and handheld consoles)</li> <li>Recognise online behaviours that would be unfair</li> </ul>	<ul style="list-style-type: none"> <li>Articulate examples of good and bad behaviours online</li> </ul>	<p>comments and show responsibility and sensitivity when online.</p> <p>Understand how simple networks are set up and used.</p> <ul style="list-style-type: none"> <li>Understand websites such as Wikipedia are made by users (link to E-safety)</li> <li>Judge when and when not to answer a question online</li> <li>Discuss scenarios involving online risks</li> </ul>	<p>Understand the effect of online comments and show responsibility and sensitivity when online.</p> <p>Understanding the impact of your digital Footprint</p> <p>Understand how simple networks are set up and used.</p> <ul style="list-style-type: none"> <li>Judge what sort of privacy settings might be relevant in reducing different risks</li> <li>Articulate what constitutes good behaviours online</li> <li>State the source of information found on the internet</li> </ul>
<b>CK3</b> To collect	<ul style="list-style-type: none"> <li>To know what relevant information to collect linked</li> </ul>	<ul style="list-style-type: none"> <li>To know how to use a simple database to</li> </ul>	To know how to use a simple database to record and retrieve	To know and devise and construct databases using applications	<ul style="list-style-type: none"> <li>To know and devise and construct databases</li> </ul>	To know how to select appropriate applications to devise, construct	To know how to select appropriate applications to devise, construct



	to a class topic.	record information in areas across the curriculum and understand why we have them.	information in areas across the curriculum and understand why we have them.	designed for this purpose in areas across the curriculum.	using applications designed for this purpose in areas across the curriculum.	and manipulate data and share information.	and manipulate data and present it in an effective and professional manner.
<b>CK4</b> <b>To communicate</b>	<ul style="list-style-type: none"> <li>To know how to switch a device on</li> <li>To know where a spacebar, backspace, delete key, arrow keys and return are on the keyboard and what they do.</li> <li>To know how to open a word processing document etc. (2Simple/Word etc.)</li> </ul>	<ul style="list-style-type: none"> <li>To know what a mouse and what it does.</li> <li>In drawing applications, to know which tools to use and where to find them, such as brushes, pens, rubber, stamps and shapes.</li> <li>To know where the Home button is to change font size, style and colour</li> <li>To know where to find and select</li> </ul>	<p>To know a range of applications and devices in order to communicate ideas, work and messages</p> <ul style="list-style-type: none"> <li>To know how to begin typing with two hands.</li> <li>To know how to use a mouse with more accurate control</li> <li>To know how to use the left click option of a mouse and what it does.</li> </ul>	<p>To know some of the advanced features of applications and devices in order to communicate ideas, work or messages professionally.</p> <ul style="list-style-type: none"> <li>To know how to position hands and fingers to increase speed when typing with two hands</li> <li>To know where the shift key and Cap Lock are to change from lower to upper case letters.</li> </ul>	<p>To know some of the advanced features of applications and devices in order to communicate ideas, work or messages professionally.</p> <ul style="list-style-type: none"> <li>To know how to add pictures into documents by copying and pasting from the internet</li> <li>To know how to insert specific symbols using symbol tool</li> <li>To know how to insert a</li> </ul>	<p>To know many of the advanced features of applications and devices in order to create high quality, professional or efficient communications.</p> <ul style="list-style-type: none"> <li>To know where the spell checker and thesaurus are and how to use them.</li> <li>To know how to insert a text box</li> <li>To know how and why we add/remove columns/rows</li> </ul>	<p>To know the most suitable applications and devices for the purposes of communication.</p> <p>To know the many advanced features in order to create high quality, professional or efficient communications.</p> <ul style="list-style-type: none"> <li>To know where the 'find function' in word is and why we use it.</li> <li>To know how to add a header/footer</li> </ul>



		<p>child's own folder with adult support</p> <ul style="list-style-type: none"> <li>To know how to open a previous saved document from own folder</li> <li>To know where the camera tool on tablets and how to take a photograph and save to an appropriate place</li> </ul>	<ul style="list-style-type: none"> <li>To know how to highlight text using a mouse</li> <li>To know how to copy and paste text</li> <li>To know how and where to align text left, right and centre</li> <li>To know how to add bullet points to text</li> <li>To know where to find and select child's own folder independently</li> <li>To know how to save a document to the child's folder with adult support</li> <li>To know how to add word art to a document and change its font, size, colour and position</li> </ul>	<ul style="list-style-type: none"> <li>To know how to open power point/publisher</li> <li>To know how to add an image from personal file</li> <li>To know how to resize, crop and move images and understand why we need to do this.</li> <li>To add shapes to a document, resize and move</li> <li>To select text to be bold, in italics or underlined</li> <li>To know how to use the highlighter tool to highlight certain areas of text</li> <li>In PP know how to create a title slide and choose a style</li> <li>To know how to add new pages/</li> </ul>	<p>table into a word document or PP slide and enter information into the table</p> <ul style="list-style-type: none"> <li>To know how to use print screen function/ snipping tool to capture an image.</li> <li>In PP, decide upon and use effective transitions</li> <li>To know that different filters can change the appearance of photograph taken</li> <li>To know how to resize, crop and wrap an image and understand why we need to do this.</li> </ul>	<p>from tables and adjust height and width</p> <ul style="list-style-type: none"> <li>In PP know how to use transitions and animations for purpose and improve quality of presentations</li> <li>In PP know how to use and include sounds and moving graphics in the slides</li> </ul>	<p>to a word document</p> <ul style="list-style-type: none"> <li>To know how to edit text directions within tables.</li> </ul>
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# Christ Church & St Peter's CE Primary School

'Aiming High & Caring for Everyone'

			<ul style="list-style-type: none"><li>To know how to highlight section of text using highlighter tool in the Home tab.</li></ul>	<p>slides to document</p> <ul style="list-style-type: none"><li>In PP know how to change the layout of a slide (where text and image boxes are)</li><li>To know how to edit photographs taken by using tools such as crop, resize, rotate and invert</li></ul>			
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## Computing Progression of Skills at Christ Church and St Peter's Primary School

In our **Computing** curriculum, all children will know how to use **ICT** to its best effect. **ICT** is a significant aspect of everyone's daily life and every child should have the opportunity to experience, use and develop fluency in new **technologies**. We aim to ensure that all pupils leave us with age appropriate computing skills, so that they are well prepared for the next stage of their education and have the widest range of **possibilities** open to them in the future. They will be able to apply their computing skills, using their **initiative** in a variety of situations and contexts and will be able to participate **safely** and **respectfully** in the digital world **beyond our gates**.

Theme	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
<b>CS1 To Code</b>	<ul style="list-style-type: none"> <li>Sequence own movements to travel to a destination walking forward and backwards and turning left and right.</li> </ul>	<ul style="list-style-type: none"> <li>Create a simple program for everyday tasks (brushing teeth, making a sandwich etc).</li> <li>Identify errors in simple algorithms and debug them.</li> </ul>	<ul style="list-style-type: none"> <li>Program beebots to reach a specific target.</li> <li>Write algorithms to get the beebot to different locations.</li> <li>Identify errors in algorithms and debug them.</li> </ul>	<ul style="list-style-type: none"> <li>Predict behaviours from a given program.</li> <li>To detect and correct errors in algorithms and programs</li> <li>Debug given programs</li> <li>Use specified screen coordinates to control movement</li> </ul>	<ul style="list-style-type: none"> <li>Write a program which accomplishes a specific goal.</li> <li>Create a program that includes a logical sequence.</li> <li>Design a program.</li> <li>Debug a program they have written</li> <li>Use repetition and selection.</li> <li>Work with variables and adjust these depending on the effect they wish to create.</li> </ul> <p><b>Greater Depth:</b></p> <ul style="list-style-type: none"> <li>Successfully decompose a</li> </ul>	<ul style="list-style-type: none"> <li>Move and edit blocks as part of an algorithm.</li> <li>Program an algorithm as a sequence of game instructions with actions and consequences.</li> <li>Debug a program they have written</li> </ul> <p><b>Greater Depth:</b></p> <ul style="list-style-type: none"> <li>Add additional effects and features, such as sound or point scoring, to enhance the appeal of a game</li> </ul>	<ul style="list-style-type: none"> <li>Select appropriate characters to match a scene.</li> <li>Animate characters with movement and speech in a story scene.</li> <li>Use broadcast and receive blocks correctly in code.</li> <li>Use show and hide blocks correctly in code.</li> <li>Create a sequence of story scenes with added audio.</li> </ul>



					<p>problem into its smaller parts.</p> <ul style="list-style-type: none"><li>• Analyse the software to check it is fit for purpose.</li><li>• Build on their existing knowledge to experiment and innovate when programming.</li></ul>		<ul style="list-style-type: none"><li>• Structure and sequence the animation of characters in each scene.</li><li>• Use the repeat command to create animation effect.</li><li>• Debug a program they have written</li><li>• Make a character visible or invisible at the correct times.</li></ul> <p><b><u>Greater Depth:</u></b></p> <ul style="list-style-type: none"><li>• Use rapid costume changes to give an animation effect.</li><li>• Add interactive features to a scene. Program the use of a single button to control background changes.</li><li>• Control smooth transitions</li></ul>
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							between characters, scenes and audio.
<b>CS2 To Connect</b>	<ul style="list-style-type: none"> <li>To talk about websites they have been on and used</li> </ul>	<ul style="list-style-type: none"> <li>Participate in class Microsoft Teams accounts</li> <li>Understand online/ school rules.</li> <li>To select the correct tool/app to access the internet.</li> </ul>	<ul style="list-style-type: none"> <li>Participate in class Microsoft Teams accounts</li> <li>Understand online/ school rules.</li> <li>To communicate via teams ie raising hands and using the chat function.</li> <li>To explore a website by clicking on arrows, menus and hyperlinks</li> </ul>	<ul style="list-style-type: none"> <li>Contribute to Microsoft teams by replying to posts on class feeds that can be moderated by teachers.</li> <li>To know what the search bar is and to type in a URL to find a website</li> <li>Use a search engine to find a range of media such as text and images</li> </ul>	<ul style="list-style-type: none"> <li>Contribute to Microsoft teams by replying to posts on class feeds that can be moderated by teachers.</li> <li>Add websites to a favourites list</li> <li>Think of search terms to use linked with questions they wish to answer</li> <li>Make judgements in order to stay safe whilst communicating with others online</li> </ul>	<ul style="list-style-type: none"> <li>Collaborate with others on Microsoft Teams which is moderated by teachers.</li> <li>Understand the effect of online comments and show responsibility and sensitivity when online.</li> <li>Use strategies to check the reliability of information (cross check with other sources such as books)</li> <li>Be a good online citizen and friend</li> <li>Find 'report' and 'flag' buttons in commonly used sites and name sources of help (ChildLine,</li> </ul>	<ul style="list-style-type: none"> <li>Collaborate with others on Microsoft Teams which is moderated by teachers.</li> <li>Understand the effect of online comments and show responsibility and sensitivity when online.</li> <li>Use advanced search functions in Google (quotations)</li> <li>Use their knowledge of domain names to aid their judgement of the validity of websites</li> <li>Click CEOP button and explain to parents what it is for.</li> </ul>



# Christ Church & St Peter's CE Primary School

'Aiming High & Caring for Everyone'

						cybermentors, CEOP etc.)	<ul style="list-style-type: none"> <li>Act as a role model for younger peers</li> </ul>
<b>CS3</b> <b>To collect</b>	<ul style="list-style-type: none"> <li>Collect relevant information linking to class topic.</li> </ul>	Use simple databases to record information in areas across the curriculum	<ul style="list-style-type: none"> <li>Use simple databases to record and retrieve information in areas across the curriculum</li> </ul>	Devise and construct databases using applications designed for this purpose in areas across the curriculum.	<ul style="list-style-type: none"> <li>Devise and construct databases using applications designed for this purpose in areas across the curriculum.</li> <li>Use information retrieved from the database to answer key questions</li> </ul>	Select appropriate applications to devise, construct and manipulate data and share information.	Select appropriate applications to devise, construct and manipulate data and present it in an effective and professional manner.
<b>CS4</b> <b>To communicate</b>	<ul style="list-style-type: none"> <li>To switch a device on</li> <li>To type using letters, spacebar, backspace, delete key, arrow keys and return</li> <li>To open a word processing document (2Simple/Word etc.)</li> </ul>	Use a range of applications and devices in order to communicate ideas, work and messages <ul style="list-style-type: none"> <li>To use a mouse with some control (Using a drawing program)</li> <li>In drawing applications, to use tools such as brushes, pens,</li> </ul>	<ul style="list-style-type: none"> <li>Consider other people's feelings on the internet</li> </ul> Use a range of applications and devices in order to communicate ideas, work and messages <ul style="list-style-type: none"> <li>To begin typing with two hands.</li> <li>To use a mouse with</li> </ul>	Use some of the advanced features of applications and devices in order to communicate ideas, work or messages professionally. <ul style="list-style-type: none"> <li>To increase speed when typing with two hands</li> <li>To use the shift key and Cap Lock to change from</li> </ul>	Use some of the advanced features of applications and devices in order to communicate ideas, work or messages professionally. <ul style="list-style-type: none"> <li>To add pictures into documents by copying and pasting from the internet</li> <li>To insert specific symbols using symbol tool</li> </ul>	Use many of the advanced features of applications and devices in order to create high quality, professional or efficient communications. <ul style="list-style-type: none"> <li>To use a spell checker and thesaurus</li> <li>To insert a text box</li> <li>Become competent at using textboxes</li> </ul>	Choose the most suitable applications and devices for the purposes of communication. <ul style="list-style-type: none"> <li>Use many of the advanced features in order to create high quality, professional or efficient communications.</li> <li>To using the find function in word</li> </ul>



		<p>rubber, stamps and shapes.</p> <ul style="list-style-type: none"> <li>To change font size, style and colour</li> <li>To find and select child's own folder with adult support</li> <li>To open a previous saved document from own folder</li> <li>To open camera tool on tablets and take a photograph and save to an appropriate place</li> </ul>	<p>more accurate control</p> <ul style="list-style-type: none"> <li>To know how to use the left click option of a mouse</li> <li>To highlight text using a mouse</li> <li>To copy and paste text</li> <li>To align text left, right and centre</li> <li>To add bullet points to text</li> <li>To find and select child's own folder independently</li> <li>To save a document to the child's folder with adult support</li> <li>To add word art to a document and change its font, size,</li> </ul>	<p>lower to upper case letters.</p> <ul style="list-style-type: none"> <li>To open power point/publisher</li> <li>To add an image from personal file</li> <li>To resize, crop and move images</li> <li>To add shapes to a document, resize and move</li> <li>To select text to be bold, in italics or underlined</li> <li>To use the highlighter tool to highlight certain areas of text</li> <li>In PP create a title slide and choose a style</li> <li>Add new pages/ slides to document</li> </ul>	<ul style="list-style-type: none"> <li>To insert a table into a word document or PP slide and enter information into the table</li> <li>To use print screen function/ snipping tool to capture an image.</li> <li>In PP, decide upon and use effective transitions</li> <li>To use different filters to change appearance of photograph taken</li> <li>To resize, crop and wrap an image</li> </ul>	<ul style="list-style-type: none"> <li>To add/remove columns/rows from tables and adjust height and width</li> <li>In PP use transitions and animations for purpose and improve quality of presentations</li> <li>In PP include sounds and moving graphics in the slides</li> </ul>	<ul style="list-style-type: none"> <li>To add a header/footer to a word document</li> <li>To edit text directions within tables.</li> <li>Work independently to create a multi slide presentation in PP</li> <li>To work independently to create a word document for a specific purpose e.g. a story, recount, non chron report etc.</li> <li>Present a PP presentation to a large group or class</li> </ul>
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# Christ Church & St Peter's CE Primary School

'Aiming High & Caring for Everyone'

			<p>colour and position</p> <ul style="list-style-type: none"><li>To highlight section of text using highlighter tool</li></ul>	<ul style="list-style-type: none"><li>In PP to change the layout of a slide (where text and image boxes are)</li><li>To edit photographs taken by using tools such as crop, resize, rotate and invert</li><li>To follow set of instructions to open file from given folder</li></ul>			
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