



Toft Hill Primary School: Computing Long Term Plan

Year	Online Safety and Digital Literacy	Information Technology	Computer Science
1	<p><u>What should you do if you are unsure about something you see online?</u></p> <ul style="list-style-type: none"> <li>Knowing who to report to when encountering information that they are unsure about</li> </ul> <p><b>NC: Identify where to go for help and support when they have concerns about content or contact</b></p>	<p><u>How can text be created on a device?</u></p> <ul style="list-style-type: none"> <li>Creating a simple document using suitable software</li> </ul> <p><b>NC: Using technology to create, organise and store digital content</b></p> <p><u>How can photos and videos be taken?</u></p> <ul style="list-style-type: none"> <li>Using apps to take and view photos and videos</li> </ul> <p><b>NC: Use technology to create digital content</b></p>	<p><u>How can a robot be programmed to follow instructions?</u></p> <ul style="list-style-type: none"> <li>Inputting instructions on beebots/software to follow a sequence of instructions</li> </ul> <p><b>NC: Understand what algorithms are and how they are implemented on a device</b></p> <p><u>How can you predict what a program will do?</u></p> <ul style="list-style-type: none"> <li>Making simple predictions about an algorithm and debug to make improvements</li> </ul> <p><b>NC: Use logical reasoning to predict behaviour of simple programs</b></p>
2	<p><u>How can devices be used to enable communication?</u></p> <ul style="list-style-type: none"> <li>Discovering ways people use technology to communicate and why it is important to be considerate to others</li> </ul> <p><b>NC: Keeping personal information private and use technology safely and respectfully</b></p> <p><u>Who should you tell if you are worried or upset?</u></p> <ul style="list-style-type: none"> <li>Identifying trusted adults to inform if they are worried or upset about anything on a device.</li> </ul> <p><b>NC: Identify where to go for help and support when they have concerns</b></p>	<p><u>How can pictures be created and changed?</u></p> <ul style="list-style-type: none"> <li>Using software to create/edit a picture</li> </ul> <p><b>NC: Use technology to create and manipulate digital content</b></p> <p><u>How can text and graphics be combined?</u></p> <ul style="list-style-type: none"> <li>Creating an electronic poster</li> </ul> <p><b>NC: Use technology purposefully to create, store and retrieve digital content</b></p>	<p><u>How can instructions be sequenced?</u></p> <ul style="list-style-type: none"> <li>Sequencing and debugging instructions to complete a route</li> </ul> <p><b>NC: Programs execute following precise instructions and debug simple programs</b></p> <p><u>How are simple programs created?</u></p> <ul style="list-style-type: none"> <li>Using block programming to create a simple program</li> </ul> <p><b>NC: Understand what algorithms are and create simple programs</b></p>



<p><b>3</b></p>	<p><u>Who can you trust online?</u></p> <ul style="list-style-type: none"> <li>Identifying ways to stay safe online and reporting concerns to adults</li> </ul> <p><b>NC: Identify ways to report concerns online and use technology safely</b></p> <p><u>How can you protect your identity online?</u></p> <ul style="list-style-type: none"> <li>Identifying sensible decisions about ways to interact with others and how presenting yourself online carries risks</li> </ul> <p><b>NC: Recognise acceptable and unacceptable behaviour. Use technology safely, respectfully and responsibly</b></p>	<p><u>How can posters be made using software?</u></p> <ul style="list-style-type: none"> <li>Creating a simple poster using text, pictures and graphics</li> </ul> <p><b>NC: Use software to present information</b></p> <p><u>How are slides used to create a presentation?</u></p> <ul style="list-style-type: none"> <li>Creating a short presentation using sequences slides</li> </ul> <p><b>NC: Use software to create and store digital content and present information</b></p>	<p><u>How are block programs used to code?</u></p> <ul style="list-style-type: none"> <li>Making a simple program that uses timing and sequence</li> </ul> <p><b>NC: Use logical reasoning to explain how some algorithms work. To write and debug programs</b></p> <p><u>How are conditionals used in programs?</u></p> <ul style="list-style-type: none"> <li>Creating a program where different buttons provide unique responses</li> </ul> <p><b>NC: Use selection in programs</b></p>
<p><b>4</b></p>	<p><u>How can information online end up with strangers?</u></p> <ul style="list-style-type: none"> <li>Identifying ways to stay safe online, protect personal information and knowing what to do when exposed to unpleasant materials</li> </ul> <p><b>NC: Use technology safely and responsibly. Identify ways to report concerns</b></p> <p><u>How can search engines be used to find information?</u></p> <ul style="list-style-type: none"> <li>Entering key words to find information and ways to select useful results</li> </ul> <p><b>NC: Use search technologies effectively</b></p>	<p><u>How can information be presented to others?</u></p> <ul style="list-style-type: none"> <li>Delivering a presentation using sequencing</li> </ul> <p><b>NC: Use software to present information</b></p> <p><u>How can digital work be formatted?</u></p> <ul style="list-style-type: none"> <li>Modifying the fonts, style and background of digitally written work</li> </ul> <p><b>NC: Select and use software to evaluate and present information</b></p>	<p><u>How can programmers use sequences?</u></p> <ul style="list-style-type: none"> <li>Sequencing instructions in a program to achieve a goal</li> </ul> <p><b>NC: Explain how simple algorithms work and detect errors in programs</b></p> <p><u>How to create a program with repetition?</u></p> <ul style="list-style-type: none"> <li>Creating shapes using repeated instructions and simple loops</li> </ul> <p><b>NC: Design and write programs that achieve specific goals</b></p>



<p>5</p>	<p><u>How can we trust information online?</u></p> <ul style="list-style-type: none"> <li>Comparing different websites and identifying that some sites may show bias</li> </ul> <p><b>NC: Be discerning in evaluating digital content</b></p> <p><u>What are the risks associated with social media?</u></p> <ul style="list-style-type: none"> <li>Identifying how to report concerns and how to act responsibly with personal information</li> </ul> <p><b>NC: Recognise acceptable/unacceptable behaviour. Identify ways to report concerns</b></p>	<p><u>How is software used to create an effective leaflet?</u></p> <ul style="list-style-type: none"> <li>Using multiple software to create an informative leaflet</li> </ul> <p><b>NC: Use and combine a variety of software to present information</b></p> <p><u>How can software be used to analyse data?</u></p> <ul style="list-style-type: none"> <li>Inputting and manipulating data in spreadsheets</li> </ul> <p><b>NC: Use software to collect, analyse and evaluate data</b></p> <p><u>How can software be used to create an effective presentation?</u></p> <ul style="list-style-type: none"> <li>Preparing an effective presentation for others that includes timing and sequences</li> </ul> <p><b>NC: Use and combine a variety of software to collect content and present information</b></p>	<p><u>How can a program be customised?</u></p> <ul style="list-style-type: none"> <li>Changing the effects of a program by creating new backgrounds or characters and altering the level of difficulty in a game.</li> </ul> <p><b>NC: Design programs that accomplish specific goals.</b></p> <p><u>How do programmers use loops to achieve goals?</u></p> <ul style="list-style-type: none"> <li>Creating a game that uses variables, conditional statements and loops</li> </ul> <p><b>NC: Write and debug programs. Use sequence selection and repetition within programs. Solve problems by decomposing them into smaller parts</b></p>
<p>6</p>	<p><u>What are the risks associated with social media?</u></p> <ul style="list-style-type: none"> <li>Identifying how to manage privacy settings and the risks associated with social media</li> </ul> <p><b>NC: Use technology safely and responsibly. Identify ways to report concerns</b></p> <p><u>How can you validate information?</u></p> <ul style="list-style-type: none"> <li>Assessing whether information is accurate and understanding the concept of fake news</li> </ul> <p><b>NC: Use search technologies effectively, appreciate how results are selected and be discerning in evaluating digital content</b></p>	<p><u>How can digital images be modified?</u></p> <ul style="list-style-type: none"> <li>Add layers, filters and text to alter content</li> </ul> <p><b>NC: Select and use a variety of software that accomplishes a given goal</b></p> <p><u>How can formula be used to complete tasks?</u></p> <ul style="list-style-type: none"> <li>Creating spreadsheets with formula to calculate values</li> </ul> <p><b>NC: Use software to collect, analyse and evaluate data</b></p>	<p><u>How are mathematical expressions when creating conditional statements?</u></p> <ul style="list-style-type: none"> <li>Creating programs that trigger conditions when a statement has been completed a set number of times</li> </ul> <p><b>NC: Work with variables and debug programs that accomplish specific goals</b></p> <p><u>How are conditional statements used to program objects?</u></p> <ul style="list-style-type: none"> <li>Completing programs that require if and when statements</li> </ul> <p><b>NC: Use sequence, selection and repetition in programs</b></p>



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