

**Our Intent is: “To provide our children with a range of technological skills, exposing them to the immense value of technology, whilst also ensuring they understand the importance of staying safe online”**



**Forton Primary School**  
**Clougha Computing – Year A**

| <b>Autumn 1</b>                                                                                                                                                                                                                                         | <b>Autumn 2</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>Spring 1</b>                                                                                                                                                                                                                                                                                      | <b>Spring 2</b>                                                                                                                                                                                                             | <b>Summer 1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>Summer 2</b>                                                                                                                                       |
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| Computer Science and Information Technology<br><b><u>Coding</u></b>                                                                                                                                                                                     | Digital Literacy and Computer Science<br><b><u>Online Safety</u></b>                                                                                                                                                                                                                                                                                                                                                                                                    | Digital Literacy<br><b><u>Email</u></b>                                                                                                                                                                                                                                                              | Information Technology<br><b><u>Branching Databases</u></b>                                                                                                                                                                 | Computer Science<br><b><u>Micro:bits</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Information Technology<br><b><u>Graphing</u></b>                                                                                                      |
| <ul style="list-style-type: none"> <li>To review previous coding knowledge.</li> <li>To understand what a flowchart is and how flowcharts are used in computer programming.</li> <li>To understand that there are different types of timers.</li> </ul> | <ul style="list-style-type: none"> <li>To know what makes a safe password, how to keep passwords safe and the consequences of giving your passwords away.</li> <li>To understand how the Internet can be used to help us to communicate effectively.</li> <li>To understand how a blog can be used to help us communicate with a wider audience.</li> <li>To consider if what can be read on websites is always true.</li> <li>To look at a ‘spoof’ website.</li> </ul> | <ul style="list-style-type: none"> <li>To think about the different methods of communication.</li> <li>To open and respond to an email.</li> <li>To write an email to someone from an address book.</li> <li>To learn how to use email safely.</li> <li>To add an attachment to an email.</li> </ul> | <ul style="list-style-type: none"> <li>To sort objects using just YES/NO questions.</li> <li>To complete a branching database using 2Question.</li> <li>To create a branching database of the children’s choice.</li> </ul> | <ul style="list-style-type: none"> <li>Understand the micro:bit is a tiny computer which needs instructions in code to make it work.</li> <li>Use Free Code micro:bit to create instructions in code that the micro:bit can understand and then transfer them to the micro:bit.</li> <li>Know the micro:bit has an LED display output which it can use to show words (as well as numbers and pictures).</li> <li>Understand that sequence and timing is important when making an animation. Understand that animations</li> </ul> | <p>To enter data into a graph and answer questions.<br/>To investigate in order to answer a question.<br/>To present the results in graphic form.</p> |

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| <ul style="list-style-type: none"> <li>• To be able to select the right type of timer for a purpose.</li> <li>• To begin to understand selection in computer programming.</li> <li>• To understand how an IF statement works.</li> <li>• To understand how to use coordinates in computer programming.</li> <li>• To understand how an IF statement works.</li> <li>• To use coding knowledge to create a range of programs. To understand the</li> </ul> | <ul style="list-style-type: none"> <li>• To create a ‘spoo’f webpage.</li> <li>• To think about why these sites might exist and how to check that the information is accurate.</li> <li>• To learn about the meaning of age restrictions symbols on digital media and devices.</li> <li>• To discuss why PEGI restrictions exist.</li> <li>• To know where to turn for help if they see inappropriate content or have inappropriate contact from others.</li> </ul> <p style="text-align: center;"><b>Information Technology</b><br/><b><u>Simulations</u></b></p> <ul style="list-style-type: none"> <li>• To find out what a simulation is and understand the purpose of simulations.</li> <li>• To explore a simulation, making choices and discussing their effects.</li> <li>• To work through and evaluate a more complex simulation.</li> </ul> | <ul style="list-style-type: none"> <li>• To explore a simulated email scenario.</li> </ul> |  | <p>create an illusion of movement by showing a sequence of still images.</p> <ul style="list-style-type: none"> <li>• Code the micro:bit to show simple animations on its LED display output.</li> <li>• Code the micro:bit to make different outputs happen depending on different inputs.</li> <li>• Understand that inputs and outputs involve the flow of data in and out of computers. Apply this knowledge using the micro:bit’s button inputs and display output.</li> <li>• Understand how sensor inputs from the accelerometer can be used to detect movement. Understand how to create sounds and music using the music editor.</li> <li>• Apply this knowledge using the micro:bit’s gesture inputs and sound output.</li> </ul> | <p style="text-align: center;"><b>Information Technology</b><br/><b><u>Making Music</u></b></p> <ul style="list-style-type: none"> <li>• To identify and discuss the main elements of music: Pulse, Rhythm, Tempo, Pitch, Texture.</li> <li>• To understand and experiment with rhythm and tempo.</li> </ul> |
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| <p>importance of nesting.</p> <ul style="list-style-type: none"><li>• To review coding vocabulary and knowledge.</li><li>• To create a simple computer program.</li></ul> |  |  |  |  | <ul style="list-style-type: none"><li>• To create a melodic phrase.</li><li>• To compose a piece of electronic music.</li></ul> |
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