

Computing Curriculum Tollgate 2020-2021

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Autumn 1	<p><b><u>E- safety</u></b></p> <ul style="list-style-type: none"> <li>Identifying the Rules of SMART</li> <li>Hardware &amp; Software differences</li> <li>Analysing the features of internet based devices</li> </ul>	<p><b><u>E-safety</u></b></p> <ul style="list-style-type: none"> <li>Identifying the features of a web browser &amp; Search engines</li> <li>To explain the importance of SMART when using the internet</li> <li>Creating Digital Folders</li> </ul>	<p><b><u>Digital Resilience</u></b></p> <ul style="list-style-type: none"> <li>Explaining what a digital footprint is</li> <li>Understanding digital resilience</li> </ul>	<p><b><u>E- Safety &amp; Emails</u></b></p> <ul style="list-style-type: none"> <li>Identifying the features of Emails</li> <li>Creating &amp; sending emails securely</li> <li>Explain what identify theft is.</li> </ul>	<p><b><u>Cyberbullying &amp; Mental Health</u></b></p> <ul style="list-style-type: none"> <li>Identifying the components of cyberbullying</li> <li>Identifying the links between cyberbullying and mental health</li> <li>Presenting cyberbullying Role play</li> </ul>	<p><b><u>Cyberbullying &amp; Mental Health</u></b></p> <ul style="list-style-type: none"> <li>Research information on cyberbullying</li> <li>Create a report on mental health</li> <li>To debate the topic of mental health</li> </ul>
Autumn 2	<p><b><u>Understanding Hardware &amp; Software</u></b></p> <ul style="list-style-type: none"> <li>Identifying the features of a Chromebook</li> <li>Understanding a qwerty keyboard</li> <li>Login securely to by internet based accounts (Google and J2E account)</li> </ul>	<p><b><u>Text &amp; Multimedia (JIT 5)</u></b></p> <ul style="list-style-type: none"> <li>Understanding sprites (graphics)</li> <li>Loading and selecting sprites (characters and backgrounds)</li> <li>Creating documents</li> </ul>	<p><b><u>Cloud Software</u></b></p> <ul style="list-style-type: none"> <li>To identify the importance of cloud software in society</li> <li>Understanding the role of servers in cloud computing</li> <li>Creating a cloud software information leaflet</li> </ul>	<p><b><u>Computer Networks</u></b></p> <ul style="list-style-type: none"> <li>To identify different network types</li> <li>Explaining the importance of networks</li> <li>Understanding how networks impact organisations</li> </ul>	<p><b><u>Social Media Apps</u></b></p> <ul style="list-style-type: none"> <li>Analysing the advantages and disadvantages of social media</li> <li>To evaluate the impact of specific apps</li> <li>To create your own social media app</li> </ul>	<p><b><u>Software Viruses &amp; Firewalls</u></b></p> <ul style="list-style-type: none"> <li>Identifying the dangers of viruses</li> <li>Compare &amp; contrast malware and spyware</li> <li>To create a presentation on internet devices</li> </ul>
Spring 1	<p><b><u>Understanding algorithm's (BeeBots)</u></b></p> <ul style="list-style-type: none"> <li>Creating a world for beebots</li> <li>Planning routes for beebots</li> <li>Debugging the movements of a beebot.</li> </ul>	<p><b><u>Animations (Jit Animate)</u></b></p> <ul style="list-style-type: none"> <li>To identify different types of animations</li> <li>Animation sequencing</li> <li>Creating animations</li> </ul>	<p><b><u>Digital Research (Romans)</u></b></p> <ul style="list-style-type: none"> <li>Applying keyboard commands</li> <li>Compare &amp; Contrast web browsers</li> <li>Research information using different search engines</li> <li>Analysing the legitimacy of websites</li> </ul>	<p><b><u>Digital Media (Ipad)</u></b></p> <ul style="list-style-type: none"> <li>Photo editing</li> <li>Editing and manipulating images</li> <li>Evaluating the quality of images captured</li> <li>Capturing video</li> </ul>	<p><b><u>Blogging (J2 Bloggy)</u></b></p> <ul style="list-style-type: none"> <li>Identifying the benefits of blogging</li> <li>Creating a simple blog</li> <li>Understanding hyperlinks</li> <li>Applying hyperlinks to blog</li> </ul>	<p><b><u>Programming (J2 Logo level 2)</u></b></p> <ul style="list-style-type: none"> <li>To design a logo</li> <li>Create a street using repeated procedures</li> <li>Create a programme using scratch</li> </ul>

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Spring 2	<p><u>Digital Media (Busy Things)</u></p> <ul style="list-style-type: none"> <li>○ Load, edit and manipulating documents</li> <li>○ Experimenting with digital software tools</li> <li>○ Creating henna designs</li> </ul>	<p><u>Programming (Jit Turtle)</u></p> <ul style="list-style-type: none"> <li>○ Predicting the instructions for a planned route</li> <li>○ To create a simple Algorithm</li> <li>○ To create a complex algorithm</li> </ul>	<p><u>Programming (J2 Visual Level 1)</u></p> <ul style="list-style-type: none"> <li>○ Identifying the features of J2 Visual</li> <li>○ Applying coding loops</li> <li>○ Applying reasoning to sequence algorithms</li> <li>○ Debugging algorithms</li> </ul>	<p><u>Digital Research (WW2)</u></p> <ul style="list-style-type: none"> <li>○ Creating a multimedia document</li> <li>○ Manipulating search engines to find specific information on WW2</li> <li>○ Understanding copyright</li> </ul>	<p><u>Programming (J2 Logo Level 1)</u></p> <ul style="list-style-type: none"> <li>○ To analyse the features of J2 Logo</li> <li>○ Create a repeated procedure</li> <li>○ Create a unique logo</li> </ul>	<p><u>Websites (J2 Webby)</u></p> <ul style="list-style-type: none"> <li>○ Analyse the features of J2 Webby</li> <li>○ Design a website style</li> <li>○ Create a website</li> <li>○ Evaluating websites</li> </ul>
Summer 1	<p><u>Programming (Busy Things)</u></p> <ul style="list-style-type: none"> <li>○ Simple algorithms</li> <li>○ Sequencing Algorithms</li> <li>○ Basic debugging</li> </ul>	<p><u>Data Handling (J2 Chart)</u></p> <ul style="list-style-type: none"> <li>○ Collecting data</li> <li>○ Creating digital pictograms</li> <li>○ Interpreting data</li> </ul>	<p><u>Data Handling ( J2 Branch)</u></p> <ul style="list-style-type: none"> <li>○ Creating fields</li> <li>○ Store &amp; sorting information</li> <li>○ Classifying information</li> <li>○ Presenting</li> </ul>	<p><u>Programming (J2 Visual level 2)</u></p> <ul style="list-style-type: none"> <li>○ Identify the features of J2 Visual (level 2)</li> <li>○ Manipulating the movement of sprites</li> <li>○ Applying different command blocks</li> <li>○ Creating a game</li> </ul>	<p><u>Digital Media (Video capture)</u></p> <ul style="list-style-type: none"> <li>○ Analyse the features of video capturing software</li> <li>○ Analysing the features of video editing software (Video shop)</li> <li>○ Capturing video</li> <li>○ Importing and editing videos</li> </ul>	<p><u>Digital Media (Film making)</u></p> <ul style="list-style-type: none"> <li>○ To create a script</li> <li>○ Capture scenes from a play script</li> <li>○ Evaluate my short film</li> </ul>
Summer 2	<p><u>Text and Multimedia (J2 Mix)</u></p> <ul style="list-style-type: none"> <li>○ Creating digital fact fills</li> <li>○ Creating a short biography</li> </ul>	<p><u>Programming (Busy things-level 2)</u></p> <ul style="list-style-type: none"> <li>○ To solve a problem a programme may have</li> <li>○ Creating complex algorithms Synchronised algorithms</li> </ul>	<p><u>Programming (J2 Visual level 2)</u></p> <ul style="list-style-type: none"> <li>○ Debug a pre-set programme</li> <li>○ Applying a range of control blocks (variables) to create programmes</li> </ul>	<p><u>Modelling (spreadsheets)</u></p> <ul style="list-style-type: none"> <li>○ Explaining data on spreadsheets (currency, numeric)</li> <li>○ Creating formulas</li> </ul>	<p><u>Text &amp; multimedia</u></p> <ul style="list-style-type: none"> <li>○ Document structure manipulation</li> <li>○ To create &amp; edit a shorty playscript</li> </ul>	<p><u>Programming (J2 Visual level 3)</u></p> <ul style="list-style-type: none"> <li>○ Create a complex computer programme</li> </ul>