

Computing 2 year rolling curriculum **Years 5 and 6**

| Cycle A | Cycle B |
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| <p>Programming (year 5)</p> <ul style="list-style-type: none"> • I can plan and test my algorithms and programs, detecting and correcting errors as needed • I can explore the use of variables • I can design and write a program that controls or simulates physical systems and sensors <p>Data</p> <p>Spreadsheets (year 5 and 6)</p> <ul style="list-style-type: none"> • I can design and create a spreadsheet for a specific purpose • I can use simple functions, e.g. SUM, AVERAGE, to solve problems • I can use brackets to organise formulae • I can change data in a formula to answer ‘What if?’ questions • I can change the format of cells appropriately • I can create a graph using spreadsheet data <p>Communication</p> <p>Word Processing (year 6)</p> <p>I can discuss and evaluate my documents, and make amendments as needed –Linked with literacy (Thompson Holiday brochure)</p> <p>Online collaboration (year 6)</p> <ul style="list-style-type: none"> • I know that some websites have age restriction, and why these might be in place • I can describe the opportunities computer networks and the internet offer for communication and collaboration • I know different ways to report concerns about content and contact. <p>Presentations (year 5)</p> <ul style="list-style-type: none"> • I can add multimedia elements, e.g. sounds, animation • I can trigger animations or link to other slides when objects are pressed <p>Digital Literacy and Research</p> <p>Research (year 6)</p> <ul style="list-style-type: none"> • I understand how computer networks work, including the internet • I understand how networks can provide multiple services, such as the web <p>Multimedia (year 5)</p> <p>Creating images</p> <ul style="list-style-type: none"> • I can add and combine shapes to design a 3D model • I can add detail to my 3D model <p>Photography</p> <ul style="list-style-type: none"> • I can improve a photo with editing tools, e.g. blur, filters, add border | <p>Programming (year 6)</p> <ul style="list-style-type: none"> • I can test, debug and modify a program and improve it • I can design and create a game/ app incorporating variables <p>Data</p> <p>Databases (year 5)</p> <ul style="list-style-type: none"> • I can interrogate a database using more complex searches • I can design and create a database • I can use information in a database to create a graph in order to answer questions <p>Communication</p> <p>Word processing (year 5)</p> <ul style="list-style-type: none"> • I can develop consistency across the document <p>Presentations (year 6)</p> <ul style="list-style-type: none"> • I can create a consistent design for my presentation, and present to others <p>Online collaboration (year 5)</p> <ul style="list-style-type: none"> • I can display myself appropriately online e.g. avatar, code name • I can add comments/posts appropriately to online communication e.g. a blog • I understand that information I put online leaves a trail, or a digital footprint <p>Digital literacy and research</p> <p>Research (year 5)</p> <ul style="list-style-type: none"> • I know the information found on some sites will be biased • I know that images and text found on websites is subject to copyright • I know how to credit the use of websites in my work, and why this should be done • I know different ways of reporting concerns about content <p>Multimedia (year 6)</p> <p>Photography</p> <ul style="list-style-type: none"> • I can take photos for a given purpose and use them in my work <p>Animation</p> <ul style="list-style-type: none"> • I can plan an animation using a storyboard • I can shoot frames to combine into an animation • I can edit an animation to improve it/ make it more realistic • I can put sounds over an animation • I can add titles and photos to an animation • I can plan and create an animation for a given purpose • I can combine animation with other software |

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| <p>Video</p> <ul style="list-style-type: none">• I can edit the video; trimming and reordering clips• I can add a voice over and/ or background music to a video• I can add titles to my video <p>Audio</p> <ul style="list-style-type: none">• I can create an audio recording and add it to other software. | <p>Multimedia overall</p> <ul style="list-style-type: none">• I can select and use appropriate multimedia tools, and combine these for a given purpose with confidence |
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