



# Farington Moss St Paul's CE Primary School Computing Scheme of Work Overview

## EYFS Throughout the Year

| Strand                 | EYFS Development Matters & ELG's                                                                                                                                                                                                                                                                                                                     | Ideas for the EYFS Curriculum                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Information Technology | <p>Early Learning Goals: EAD - Share their creations, explaining the process they have used</p> <p>Development Matters: EAD - Explore, use and refine a variety of artistic effects to express their ideas and feelings</p>                                                                                                                          | <p>Interact and explore their environment using a range of multimedia equipment, including digital cameras, video cameras, microscopes, tablets etc.</p> <p>Take digital pictures on a nature walk and display them on the IWB and iPads.</p> <p>Use a simple paint package to experiment with colour, shapes and tools. Use Mini Mash.</p> <p>Use a Smartboard will allow children to use their fingers in gross motor movements (during continuous provision).</p> <p>Explore ways of listening to sounds using simple programs and devices for example during phonics videos and games.</p>                                                                                  |
| Digital Literacy       | <p>Early Learning Goals: PSED - Explain the reasons for rules, know right from wrong and try to behave accordingly</p> <p>Development Matters:</p> <p>PSED - See themselves as a valuable individual.</p> <p>PSED - Build constructive and respectful relationships.</p> <p>PSED - Express their feelings and consider the feelings of others.</p>   | <p>Identify some simple examples of personal information (name, address, birthday and age for example)</p> <p>Identify rules that help keep people safe and healthy in and beyond the home when using technology.</p> <p>Describe ways that some people can be unkind online. Give examples of how they (might) use technology to communicate with people they know. For example; using Class Dojo to send photos and homework home.</p> <p>Identify devices they could use to access information on the internet<br/>Use different forms of electronic communication in free play, e.g., email, mobile phones, hand-held devices, walkie talkies, sound recording devices.</p> |
| Computer Science       | <p>Early Learning Goals:</p> <p>PD - Use a range of small tools</p> <p>PSED - Be confident to try new activities and show independence, resilience and perseverance in the face of challenge</p> <p>Development Matters:</p> <p>PD - Develop their small motor skills so that they can use a range of tools competently, safely and confidently.</p> | <p>Look around the school and environment at technology with control switches, (e.g. photocopier, alarms, washing machines, television sets).</p> <p>Online simulation games - BBC games, CBeebies</p> <p>Talk about electronic equipment in real-life situations, (e.g. traffic lights, scanners, microwaves, cash tills, etc.) and investigate how they work</p> <p>Encourage exploratory play with remote control toys, webcams, onscreen activities and simple control devices (e.g. microwave, kettle vacuum etc.)</p>                                                                                                                                                     |



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|  | PSED - Show resilience and perseverance in the face of challenge. |  |
|--|-------------------------------------------------------------------|--|

|        | Autumn 1                                                                | Autumn 2                                                  | Spring 1                                                                                        | Spring 2                                                           | Summer 1                                     | Summer 2                                                                          |
|--------|-------------------------------------------------------------------------|-----------------------------------------------------------|-------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|----------------------------------------------|-----------------------------------------------------------------------------------|
| Year 1 | DL Project Evolve<br>Self-Image and<br>Identity<br>Online Relationships | DL Project Evolve<br>Online Reputation<br>Online Bullying | DL Project Evolve<br>Managing Online<br>Information<br>Safer Internet<br>Day                    | DL Project Evolve<br>Health, Well-being<br>and Lifestyle           | DL Project Evolve<br>Privacy and<br>Security | DL Project Evolve<br>Copyright and<br>Ownership                                   |
|        | Computer Systems<br>and Networks -<br>Technology around<br>us           | Creating Media -<br>Digital Art                           | Computer Science<br>Giving instructions<br>and using<br>programmable toys                       | Data and<br>Information -<br>Grouping data by<br>sorting objects   | Creating Media -<br>Digital Writing          | Computer Science<br>Program blocks of<br>code to make<br>objects move             |
| Year 2 | DL Project Evolve<br>Self-Image and<br>Identity<br>Online Relationships | DL Project Evolve<br>Online Reputation<br>Online Bullying | DL Project Evolve<br>Managing Online<br>Information<br>Safer Internet<br>Day                    | DL Project Evolve<br>Health, Well-being<br>and Lifestyle           | DL Project Evolve<br>Privacy and<br>Security | DL Project Evolve<br>Copyright and<br>Ownership                                   |
|        | Computer Systems<br>and Networks - IT<br>Around Us                      | Creating Media -<br>Sound                                 | Computer Science<br>Give and follow<br>instructions. Use<br>programmable toys<br>and debug code | Data and<br>Information -<br>Pictograms/<br>Branching<br>Databases | Creating Media -<br>Digital<br>Photography   | Computer Science<br>Program blocks of<br>code to make<br>multiple objects<br>move |



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|        | Autumn 1                                                                                                                      | Autumn 2                                                                                  | Spring 1                                                                                               | Spring 2                                                                 | Summer 1                                                           | Summer 2                                                                   |
|--------|-------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------|----------------------------------------------------------------------------|
| Year 3 | DL Project Evolve Self-Image and Identity<br>Online Relationships                                                             | DL Project Evolve Online Reputation<br>Online Bullying                                    | DL Project Evolve Managing Online Information<br>Safer Internet Day                                    | DL Project Evolve Health, Well-being and Lifestyle                       | DL Project Evolve Privacy and Security                             | DL Project Evolve Copyright and Ownership                                  |
|        | Computer Systems and Networks - Connecting Computers                                                                          | Computer Science Program a sequence of code using Lego Spike. Use inputs and outputs.     | Creating Media - Key word searches<br>Desk Top Publishing                                              | Computer Science Program a sequence of code. Use repetition. Debug code. | Creating Media - Photo Editing                                     | Creating Media - Stop Frame Animation                                      |
| Year 4 | DL Project Evolve Self-Image and Identity<br>Online Relationships                                                             | DL Project Evolve Online Reputation<br>Online Bullying                                    | DL Project Evolve Managing Online Information<br>Safer Internet Day                                    | DL Project Evolve Health, Well-being and Lifestyle                       | DL Project Evolve Privacy and Security                             | DL Project Evolve Copyright and Ownership                                  |
|        | Computer Science. Program a sequence of code using inputs and outputs on Lego Spike and Crumble. Cross curricular link to DT. | Data and Information - Branching Databases<br><br>Use Data Loggers (MicroBits) in Science | Computer Systems and Networks - The Internet and The World Wide Web<br><br>Use Data Loggers in Science | Creating Media - Sound                                                   | Creating Media - Video Production<br><br>Use Digimaps in Geography | Computer Science Program a sequence of code using repetition and selection |



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|        | Autumn 1                                                             | Autumn 2                                                  | Spring 1                                                                                              | Spring 2                                                                           | Summer 1                                                          | Summer 2                                                                                |
|--------|----------------------------------------------------------------------|-----------------------------------------------------------|-------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| Year 5 | DL Project Evolve<br>Self-Image and Identity<br>Online Relationships | DL Project Evolve<br>Online Reputation<br>Online Bullying | DL Project Evolve<br>Managing Online Information<br>Safer Internet Day                                | DL Project Evolve<br>Health, Well-being and Lifestyle                              | DL Project Evolve<br>Privacy and Security                         | DL Project Evolve<br><br>Copyright and Ownership                                        |
|        | Computer Systems and Networks -<br>Systems and Searching             | Creating Media -<br>Databases                             | Creating Media-<br>Word-processing using MS Word                                                      | Computer Science<br>Program code using selection and repetition.<br>Use Lego Spike | Creating Media -<br>Creating an interactive quiz on MS PowerPoint | Computer Science<br>Program sequences of code using sequences, selection and repetition |
| Year 6 | DL Project Evolve<br>Self-Image and Identity<br>Online Relationships | DL Project Evolve<br>Online Reputation<br>Online Bullying | DL Project Evolve<br>Managing Online Information<br>Safer Internet Day                                | DL Project Evolve<br>Health, Well-being and Lifestyle                              | DL Project Evolve<br>Privacy and Security                         | DL Project Evolve<br>Copyright and Ownership                                            |
|        | Computer Science<br>BBC Micro bit                                    | Creating Media -<br>Introduction to Spreadsheets          | Computer Systems and Networks -<br>The Internet, the World Wide Web and Communicating Collaboratively | Computer Science<br>Program a sequence of code using variables                     | Creating Media -<br>MS PowerPoint creating a presentation         | Computer Science<br>Program code using decomposition<br>Use Lego Spike                  |



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