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|  | Autumn 1 | Autumn 2 | Spring 1 | Spring 2 | Summer 1 | Summer2 |
| Foundation Stage | *Computer Science* | *Computer Science* | *IT* | *Digital Literacy* | *IT* | *Digital Literacy* |
| **Problem Solving & The Real World** | **Programming,**  **Coding, Gaming Robotics** | **Collecting, Exploring & Recording Data** | **Communicating & The Web**  **E-safety** | **Produce, Edit & Publish Media** | **Create & Share Digital Artefacts** |
| Using computers to represent objects | Directional control using BeeBot’s and onscreen sprites. | Creating tallies and pictograms | Creating an avatar, setting up a profile and email, and emailing | Producing talking images, symmetrical art and a comic | Creating talking pictures and a class eBook |
| Year 1 | *Computer Science* | *Computer Science* | *IT* | *Digital Literacy* | *IT* | *Digital Literacy* |
| **Problem Solving & The Real World** | **Programming,**  **Coding, Gaming Robotics** | **Collecting, Exploring & Recording Data** | **Communicating & The Web**  **E-safety** | **Produce, Edit & Publish Media** | **Create & Share Digital Artefacts** |
| Creating Electronic Games | Giving instructions to  Floor turtles and  on-screen sprites.  Creating algorithms.  Optional – Creating circuits Makey Makey | Creating Pictograms  and Bar Charts.  Recording data in  alternative forms | E-safety issues  Creating their own Avatar and profile | Producing talking poster, advert or leaflet and Fact file PowerPoint. | Creating digital art and talking Collages |
| Year 2 | *Computer Science* | *Computer Science* | *IT* | *Digital Literacy* | *IT* | *Digital Literacy* |
| **Problem Solving & The Real World** | **Programming,**  **Coding, Gaming Robotics** | **Collecting, Exploring & Recording Data** | **Communicating & The Web**  **E-safety** | **Produce, Edit & Publish Media** | **Create & Share Digital Artefacts** |
| Creating Electronic Games  Optional playing game using Makey Makey | Giving instructions by creating algorithms.  Creating animations | Collecting, grouping and representing data in graphs and pie charts | Effective searches to create talking poster  E-safety and digital ownership | Image editing.  Creating a factual leaflet. | Creating a narrated movie using images from Google Earth |

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| Year 3 | *Computer Science* | *Computer Science* | *Digital Literacy* | *IT* | *IT* | *Digital Literacy* |
| **Problem Solving & The Real World** | **Programming, Coding, Gaming and Robotics** | **Collecting, Exploring and Recording Data** | **Communicating & The Web**  **E-safety** | **Produce, Edit & Publish Media** | **Create & Share Digital Artefacts** |
| Design a 3D Lego model onscreen | Creating algorithms using coding to create games and animations | Creating databases  and QR codes. | E-safety – chat rooms and personal info  Publishing documents safely | Producing a film | Podcasting |
| Year 4 | *Computer Science* | *Computer Science* | *Digital Literacy* | *IT* | *IT* | *Digital Literacy* |
| **Problem Solving & The Real World** | **Programming, Coding, Gaming and Robotics** | **Collecting, Exploring and Recording Data** | **Communicating & The Web**  **E-safety** | **Produce, Edit & Publish Media** | **Create & Share Digital Artefacts** |
| Using a Lego CAD program to design a Bird House | Creating algorithms using coding to create a game | Databases | Experience of publishing their own work on a safe site  Understanding plagiarism | Presenting news articles in 2 contrasting formats; paper and video | Animation |
|  |  |  |  |  |  |
| Year 5 | *Computer Science* | *Computer Science* | *Digital Literacy* | *IT* | *IT* | *Digital Literacy* |
| **Problem Solving & The Real World** | **Programming, Coding, Gaming and Robotics** | **Collecting, Exploring and Recording Data** | **Communicating & The Web**  **E-safety** | **Produce, Edit & Publish Media** | **Create & Share Digital Artefacts** |
| Cad Design using Sketch Up | 3D Moon world in Kodu  Link – Earth & Space | Spreadsheet and graphs  Presenting findings | Communicating with  appropriate behaviour  and content online | Producing a documentary style film | Create Digital Pop Art |
| Year 6 | *Computer Science* | *Computer Science* | *Digital Literacy* | *IT* | *IT* | *Digital Literacy* |
| **Problem Solving & The Real World** | **Programming, Coding, Gaming and Robotics** | **Collecting, Exploring and Recording Data** | **Communicating & The Web**  **E-safety** | **Produce, Edit & Publish Media** | **Create & Share Digital Artefacts** |
| Develop & create an app for a specific audience or purpose | Creating algorithms in Scratch to make a game | Comparing data from 3 websites.  Creating Spreadsheets and presenting data graphically | Interschool collaboration on a joint project via blogging | Media Create a website using Komposer. | Podcasting |