|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | 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 toFloor turtles andon-screen sprites.Creating algorithms.Optional – Creating circuits Makey Makey | Creating Pictogramsand Bar Charts.Recording data inalternative forms | E-safety issuesCreating 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 GamesOptional 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 posterE-safety and digital ownership | Image editing.Creating a factual leaflet. | Creating a narrated movie using images from Google Earth |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 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 databasesand QR codes. | E-safety – chat rooms and personal infoPublishing 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 siteUnderstanding 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 KoduLink – Earth & Space | Spreadsheet and graphsPresenting findings | Communicating withappropriate behaviourand 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 |