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|  | AUTUMN 1 | AUTUMN 2 | SPRING 1 | SPRING 2 | SUMMER 1 | SUMMER 2 |
| YEAR 1 | Computing Systems and networks:  Mouse Skills  Logging in  Safety in the Lab  Behaviour | Skills showcase:  Rocket to the moon  Year 1 Online Safety | Programming 1: Algorithms Unplugged  (Code.Org may help. All classes are already set up. Year 1 – Pre-reader Express. Works as a great filler if some pupils complete work quickly) | Computing Systems and networks 2:  Exploring Hardware | Data handling Introduction to Data | Creating Media – Digital Imagery  Programming 2:  BEE-BOT  **Completed in Class** |
| YEAR 2 | Logging in  Safety in the Lab  Behaviour  Year 2 Online Safety | Computing Systems and networks:  What is a computer?  There is a PC under the printer that you can take the cover off and let the children look inside. | Programming 1:  Algorithms and debugging (Code.Org?)  Computing Systems and networks 2:  Word Processing  Link to topics in class. | Programming 2:  Scratch Junior  **Minecraft Session (if needed in D&T)**  Use of Mine Craft for D&T 3D Computer Aided Design  (D&T Link Shell Structures)  (Please speak to staff member before the start of the term) | Data Handling: International Space Station (Move to Summer 2 with Lego?)  Creating Media  Stop Motion | Use of WeDo Lego Programming  Two projects - Glowing snail, cooling fan, Spy robot Vehicles, winding up toy  (liaise with class teacher for most appropriate project based on classroom topics)  **Please see D&T KSP for key words and objectives (in folder)** |

BLESSED ROBERT WIDMERPOOL CATHOLIC VOLUNTARY ACADEMY

KEY STAGE 1

LOWER KEY STAGE 2

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| YEAR 3 | Year 3 Online Safety  Computing Systems and networks 1:  Networks and the Internet | Computing Systems and networks 2:  Emailing | Computing Systems and networks 3:  Journey inside a computer.  (PC under the printer can be used to remove the cover to show the children inside.) | Programming:  Scratch  **Minecraft Session**  Use of Mine Craft for D&T 3D Computer Aided Design  (D&T Link Shell Structures)  (Please speak to staff member before the start of the term) | WeDo Lego  Building and Programming  Flood Gate Project  **Please see D&T KSP for key words and objectives (in folder)**  Creating Media  Video Trailers | Data handling: Comparison cards database |
| YEAR 4 | Year 4 Online Safety  Computing Systems and networks:  Collaborative learning  MS Teams  Google Interland  <https://beinternetawesome.withgoogle.com/en_us/interland>  Children work through the levels. Save the certificate in Pupil folder. | Creating media:  Website design.  Check with class teacher for topic links to Sway. | WeDo Lego  Building and Programming  Sphinx Project  **Please see D&T KSP for key words and objectives (in folder)**  Programming 1:  Further Coding with Scratch (and Code.org) | Skills showcase:  HTML  **Minecraft Session**  Use of Mine Craft for D&T 3D Computer Aided Design  (D&T Link Shell Structures)  (Please speak to staff member before the start of the term) | Programming 2: Computational thinking | Data Handling  Investigating weather.  Weather station placed on the Computer Lab roof. Wifi results next to the radio. |

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| YEAR 5 | Year 5 Online Safety  Google Interland  <https://beinternetawesome.withgoogle.com/en_us/interland>  Children work through the levels. Save the certificate in Pupil folder.  Can be revisited every year | Programming 2:  Music  Programming 1 – Programming an LED light show (3 lessons) | Programming 3:  Micro bit  We have 10 micro: bit v2 in the first cupboard in the lab.  Allow children to have a go.  https://makecode.microbit.org/ | Creating Media: Stop Motion Animation  **Minecraft Session**  Use of Mine Craft for D&T 3D Computer Aided Design  (D&T Link Shell Structures)  (Please speak to staff member before the start of the term) | Data Handling  Mars Rover 1  Data Handling  Mars Rover 2 | Computing Systems and networks:  Search Engines  WeDo Lego Building and Programming  Year 5 Alternate between Moon base/Crocodile Project.  **Please see D&T KSP for key words (in folder)** |
| YEAR 6 | Year 6 Online Safety  Google Interland  <https://beinternetawesome.withgoogle.com/en_us/interland>  Children work through the levels. Save the certificate in Pupil folder.  Can be revisited every year | Programming 1 – Programming an LED light show (3 lessons)  Programming 2:  Intro to Python | Data Handling  Big Data 1 | Data Handling  Big Data 2  **Minecraft Session**  Use of Mine Craft for D&T 3D Computer Aided Design  (D&T Link Shell Structures)  (Please speak to staff member before the start of the term) | Computing Systems and networks:  Bletchley Park  Creating media: History of Computers | Skills showcase  Inventing a product  WeDo Lego Building and Programming  Year 6 Alternate between Volcano Alert/Crocodile Project.  **Please see D&T KSP for key words (in folder)** |

UPPER KEY STAGE 2