



# BLESSED ROBERT WIDMERPOOL CATHOLIC VOLUNTARY ACADEMY

## COMPUTING OVERVIEW

### KEY STAGE 1

	AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2
YEAR 1	<p>Logging in Safety in the Lab No spinning on the chairs Patience only help 1 child at a time – raise your hand</p> <p>Behaviour Quiet Year 6 working in the corridor Class Teacher to provide login cards</p> <p>Year 1 Online Safety</p>	<p>Computing Systems and networks: Mouse Skills <a href="https://media.abcya.com/games/pizza/html/index.html">https://media.abcya.com/games/pizza/html/index.html</a></p> <p>Skills showcase: BBC Dance Mat Send out link through Senso Two hands on keyboard</p>	<p>Programming 1: Algorithms unplugged</p> <p>Programming 1: Code.Org all classes set up Year 1 - Pre reader Express This works as a great filler if some pupils complete any computing work quickly.</p>	<p>Programming 2: BEE-BOT</p>	<p>Data handling Introduction to Data</p>	<p>Skills showcase Rocket to the moon</p>
YEAR 2	<p>Logging in Safety in the Lab No spinning on the chairs Patience only help 1 child at a time – raise your hand</p> <p>Behaviour Quiet Year 6 working in the corridor</p> <p>Year 2 Online Safety</p>	<p>Computing Systems and networks: What is a computer? PC under the printer I take the cover off and let the children look inside.</p>	<p>Skills showcase: Typing Club</p> <p>Computing Systems and networks: Word Processing Check with class teacher if link to topic can be made as assessment.</p>	<p>Programming 2: Scratch Junior</p> <p>Programming 1: Algorithms and debugging</p>	<p>Creating Media Stop Motion</p> <p>Minecraft Session Use of Mine Craft for D&amp;T 3D Computer Aided Design (D&amp;T Link Shell Structures) (Please speak to staff member before the start of the term)</p>	<p>Use of WeDo Lego Programming</p> <p>Two projects - Glowing snail, cooling fan, Spy robot Vehicles, winding up toy</p> <p>(liaise with class teacher for most appropriate project based on classroom topics)</p>

## LOWER KEY STAGE 2

YEAR 3	<div data-bbox="248 177 551 424">Year 3 Online Safety</div> <div data-bbox="248 424 551 639">Computing Systems and networks: Journey inside a computer (Building a Laptop)</div>	<div data-bbox="573 177 869 379">Computing Systems and networks: Networks and the Internet</div> <div data-bbox="573 379 869 639">Computing Systems and networks: Emailing <small>Link Topic required for email subject?</small></div>	<div data-bbox="891 177 1184 536">Programming 1: Scratch – ‘Story Telling’</div>	<div data-bbox="1218 177 1489 456"> <b>Minecraft Session</b>  <small>Use of Mine Craft for D&amp;T 3D Computer Aided Design</small>  <b>(D&amp;T Link Shell Structures)</b>  <small>(Please speak to staff member before the start of the term)</small> </div> <div data-bbox="1218 456 1489 639">           Creating Digital Art  <b>Art Link</b> </div>	<div data-bbox="1523 177 1818 507">Creating media – Stop-frame animation (NCCE SOW)</div>	<div data-bbox="1841 177 2134 368">Data Handling Comparison Cards Databases – ‘Top Trumns’</div> <div data-bbox="1841 368 2134 647">           WeDo Lego            Building and Programming            Flood Gate Project  <b>Please see D&amp;T KSP for key words and objectives (in folder)</b> </div>
YEAR 4	<div data-bbox="248 655 551 767">Year 4 Online Safety</div> <div data-bbox="248 767 551 1078">           Google Interland  <a href="https://beinternetawesome.withgoogle.com/en-us/interland">https://beinternetawesome.withgoogle.com/en-us/interland</a>            Children work through the levels. Save the certificate in Pupil folder.         </div>	<div data-bbox="573 655 869 903">Computing Systems and networks: Collaborative learning MS Teams</div>	<div data-bbox="891 655 1184 903">Further Coding with Scratch – ‘Times Tables Project’</div>	<div data-bbox="1218 655 1489 991">           Creating media: Website design  <small>Check with Class teacher focus for the Sway Book Review and Assessment Focus</small> </div> <div data-bbox="1218 991 1489 1150">Skills showcase: HTML</div>	<div data-bbox="1523 655 1818 823">Computational thinking</div> <div data-bbox="1523 823 1818 1094"> <b>Minecraft Session</b>  <small>Use of Mine Craft for D&amp;T 3D Computer Aided Design</small>  <b>(D&amp;T Link Shell Structures)</b>  <small>(Please speak to staff member before the start of the term)</small> </div>	<div data-bbox="1841 655 2134 935">           WeDo Lego            Building and Programming            Sphinx Project  <b>Please see D&amp;T KSP for key words and objectives (in folder)</b> </div> <div data-bbox="1841 935 2134 1286">           Data Handling Investigating weather            Weather Station placed on lab roof Wi-Fi results next to radio         </div>

## UPPER KEY STAGE 2

YEAR 5	<p>Year 5 Online Safety</p> <p>Google Interland  <a href="https://beinternetawesome.withgoogle.com/en_us/interland">https://beinternetawesome.withgoogle.com/en_us/interland</a>            Children work through the levels. Save the certificate in Pupil folder.            Can be revisited every year</p>	<p>Programming: Circuit Design</p> <p>Tinker CAD</p> <p>Students learn the basics of building a circuit and programming an Arduino to control it. They will use what they learn to make their own LED light-show.</p>	<p>Programming: Music</p> <p>Computing Systems and networks: Search Engines            Check with Class Teacher</p>	<p>Creating Media: Stop Motion Animation</p> <p>Minecraft Session            Use of Mine Craft for D&amp;T 3D Computer Aided Design            (D&amp;T Link Shell Structures)            (Please speak to staff member before the start of the term)</p>	<p>WeDo Lego Building and Programming</p> <p>Year 5 Alternate between Moon base/Crocodile Project.</p> <p>Please speak to staff member to confirm the project.</p> <p><b>Please see D&amp;T KSP for key words (in folder)</b></p> <p>Data Handling Mars Rover 1</p>	<p>Skills Showcase Mars Rover 2</p> <p>Programming: Micro bit</p> <p>We have 10 micro:bit v2 in the first cupboard in the lab. Allow children to have a go.  <a href="https://makecode.microbit.org/">https://makecode.microbit.org/</a></p>
YEAR 6	<p>Year 6 Online Safety</p> <p>Google Interland  <a href="https://beinternetawesome.withgoogle.com/en_us/interland">https://beinternetawesome.withgoogle.com/en_us/interland</a>            Children work through the levels. Save the certificate in Pupil folder.            Can be revisited every year</p>	<p>Computing Systems and networks:</p> <p>Pupils will be learning about the history of computers and how they have evolved over time and understand the importance of Bletchley Park to the World War II war effort.</p>	<p>Programming: Intro to Python</p> <p>Minecraft Session            Use of Mine Craft for D&amp;T 3D Computer Aided Design            (D&amp;T Link Mayan Temples)            (Please speak to staff member before the start of the term)</p>	<p>Data Handling Big Data 1</p> <p>Data Handling Big Data 2</p>	<p>WeDo Lego Building and Programming</p> <p>Year 6 Alternate between Volcano Alert/Crocodile Project.</p> <p>Please speak to staff member to confirm the project.</p> <p><b>Please see D&amp;T KSP for key words (in folder)</b></p>	<p>Skills showcase Inventing a product</p> <p>Computing Systems and networks: Network in School            Show the switch cabinet in the chair store            Router is that cabinet            Server in the lab            Access Point in the hall and the lab.</p>