

## ICT – Year 1

	Topic and Assessment / Outcomes	Knowledge Progression / Resources	Vocabulary	Skills Progression Links within / across curriculum	Links with BLP and SMSC	Extra-curricular Career aspirations
A u t u m n 1	<b>Online Safety &amp; Exploring Purple Mash</b>	<ul style="list-style-type: none"> <li>To understand what a password is and why we should keep them safe</li> <li>To understand what a digital avatar</li> <li>To understand where individual work is stored</li> </ul> <p><u>Resources</u></p> <ul style="list-style-type: none"> <li><a href="#">Purple Mash</a> <ul style="list-style-type: none"> <li><a href="#">2Explore</a></li> <li><a href="#">2Count</a></li> <li><a href="#">2Connect</a></li> <li><a href="#">Paint Projects</a></li> <li><a href="#">Tools</a></li> </ul> </li> </ul>	Log in Username Password Avatar Log out Save Notification	<ul style="list-style-type: none"> <li>To log in safely.</li> <li>To learn how to find saved work in a cloud based suite of programmes.</li> <li>To learn how to search and navigate websites.</li> <li>To start to add pictures and text to work.</li> <li>To explore websites.</li> <li>To learn how to open, save and print.</li> <li>To understand the importance of logging out.</li> </ul>	BLP <ul style="list-style-type: none"> <li>Noticing</li> <li>Perseverance</li> <li>Listening</li> <li>Absorption</li> <li>Making Links</li> <li>Imitation</li> </ul> SMSC <ul style="list-style-type: none"> <li>Recognise right and wrong</li> <li>Understand consequences</li> <li>Understand, accept, respect and celebrate diversity</li> </ul>	<ul style="list-style-type: none"> <li>Teacher</li> <li>Police officer</li> <li>Cyber/ Criminologist</li> </ul>
A u t u m n 2	<b>Grouping &amp; Sorting</b>	<ul style="list-style-type: none"> <li>To understand that objects can be sorted in different ways</li> </ul> <p><u>Resources</u></p> <ul style="list-style-type: none"> <li><a href="#">Purple Mash</a> <ul style="list-style-type: none"> <li><a href="#">2Do It Yourself</a></li> </ul> </li> </ul>	Sort Criteria	<ul style="list-style-type: none"> <li>To sort items using a range of criteria</li> <li>To sort items on the computer using software that allows grouping</li> </ul>	BLP <ul style="list-style-type: none"> <li>Noticing</li> <li>Perseverance</li> <li>Listening</li> <li>Making Links</li> </ul>	<ul style="list-style-type: none"> <li>Global skill applicable to most jobs</li> <li>Researcher</li> </ul>
A u t u m n 2	<b>Pictograms</b>	<ul style="list-style-type: none"> <li>To understand that data can be represented in picture format</li> </ul> <p><u>Resources</u></p> <ul style="list-style-type: none"> <li><a href="#">Purple Mash</a> <ul style="list-style-type: none"> <li><a href="#">2Count</a></li> <li><a href="#">2Connect</a></li> </ul> </li> </ul>	Pictogram Data Collate	<ul style="list-style-type: none"> <li>To contribute to a class pictogram</li> <li>To use a pictogram to record the results of an investigation</li> </ul>	BLP <ul style="list-style-type: none"> <li>Noticing</li> <li>Perseverance</li> <li>Listening</li> <li>Absorption</li> <li>Making Links</li> <li>Imitation</li> <li>Collaboration</li> </ul>	<ul style="list-style-type: none"> <li>Global skill applicable to most jobs</li> <li>Researcher</li> <li>Analyst</li> <li>Publishing data</li> </ul>
S p r i n g 1	<b>Lego Builders</b>	<ul style="list-style-type: none"> <li>To understand what an instruction is.</li> <li>To begin to know what to do to debug code.</li> </ul> <p><u>Resources</u></p> <ul style="list-style-type: none"> <li><a href="#">Lego Model Kits</a></li> <li><a href="#">Purple Mash</a> <ul style="list-style-type: none"> <li><a href="#">Paint Projects</a></li> </ul> </li> </ul>	Instruction Algorithm Computer Program Debug	<ul style="list-style-type: none"> <li>To compare the effects of adhering strictly to instructions to completing tasks without complete instructions.</li> <li>To follow and create simple instructions on the computer.</li> <li>To consider how the order of instructions affects the result.</li> </ul>	BLP <ul style="list-style-type: none"> <li>Imagining</li> <li>Listening</li> <li>Imitation</li> <li>Collaboration</li> <li>Absorption</li> </ul> SMSC <ul style="list-style-type: none"> <li>Using imagination and creativity</li> </ul>	<ul style="list-style-type: none"> <li>Construction</li> <li>Architect</li> <li>Programmer/ developer</li> </ul>

<p style="text-align: center;">S p r i n g 1</p>	<p style="text-align: center;"><b>Maze Explorers</b></p>	<ul style="list-style-type: none"> <li>To understand how to use a program that allows objects to be moved round a screen using arrows or simple code.</li> <li>To understand that mistakes can be debugged using an undo button.</li> </ul> <p><u>Resources</u></p> <ul style="list-style-type: none"> <li><a href="#">Purple Mash</a> <ul style="list-style-type: none"> <li><a href="#">2Go</a></li> </ul> </li> </ul>	<p>Direction Challenge Arrow Undo Rewind Forward Backwards Right turn Left turn Debug Instruction Algorithm</p>	<ul style="list-style-type: none"> <li>To understand the functionality of the direction keys.</li> <li>To understand how to create and debug a set of instructions (algorithm).</li> <li>To use the additional direction keys as part of an algorithm.</li> <li>To understand how to change and extend the algorithm list.</li> <li>To create a longer algorithm for an activity.</li> <li>To set challenges for peers.</li> <li>To access peer challenges.</li> </ul>	<p>BLP</p> <ul style="list-style-type: none"> <li>Imagining</li> <li>Perseverance</li> <li>Noticing</li> <li>Revising</li> <li>Imitation</li> </ul>	<ul style="list-style-type: none"> <li>Developer</li> <li>Programmer</li> <li>Designer</li> <li>Debugger</li> </ul>
<p style="text-align: center;">S p r i n g 2</p>	<p style="text-align: center;"><b>Animated Story Books</b></p>	<ul style="list-style-type: none"> <li>To understand that technology can be used to create ebooks.</li> <li>To understand what an animated story is.</li> <li>To understand how to improve animated stories.</li> </ul> <p><u>Resources</u></p> <ul style="list-style-type: none"> <li><a href="#">Purple Mash</a> <ul style="list-style-type: none"> <li><a href="#">2Create a Story</a></li> </ul> </li> </ul>	<p>Animation E-Book Font File Sound Effect</p>	<ul style="list-style-type: none"> <li>To introduce e-books.</li> <li>To add animation to a story.</li> <li>To add sound to a story, including voice recording and music the children have composed.</li> <li>To work on a more complex story, including adding backgrounds and copying and pasting pages.</li> <li>To share e-books.</li> </ul>	<p>BLP</p> <ul style="list-style-type: none"> <li>Imagining</li> <li>Perseverance</li> <li>Noticing</li> <li>Planning</li> <li>Revising</li> <li>Collaboration</li> </ul>	<ul style="list-style-type: none"> <li>Author</li> <li>Animator</li> <li>Graphic Designer</li> </ul>
<p style="text-align: center;">S u m m e r 1</p>	<p style="text-align: center;"><b>Coding</b></p>	<ul style="list-style-type: none"> <li>To understand what coding is</li> <li>To know how to make characters move within coding software.</li> <li>To understand why it is useful to design before coding.</li> </ul> <p><u>Resources</u></p> <ul style="list-style-type: none"> <li><a href="#">Purple Mash</a> <ul style="list-style-type: none"> <li><a href="#">Free code chimp</a></li> <li><a href="#">Tools</a></li> </ul> </li> </ul>	<p>Action Background Button Character Code block Code Design Coder Coding Collision Detection Command Input Object Program Properties Scale Stop command Sound When clicked When Key</p>	<ul style="list-style-type: none"> <li>To understand what coding means.</li> <li>To use design mode to set up a scene.</li> <li>To add characters.</li> <li>To use code blocks to make the character perform actions.</li> <li>To use collision detection.</li> <li>To save and share work.</li> <li>To know the save, print, open and new icon.</li> </ul>	<p>BLP</p> <ul style="list-style-type: none"> <li>Perseverance</li> <li>Planning</li> <li>Imagining</li> <li>Reasoning</li> <li>Noticing</li> <li>Questioning</li> </ul> <p>SMSC</p> <ul style="list-style-type: none"> <li>Using imagination and creativity</li> </ul>	<ul style="list-style-type: none"> <li>Programmer</li> <li>Game Developer</li> <li>Software Developer</li> <li>Web Developer</li> </ul>

<p style="text-align: center;">S u m m e r 2</p>	<p style="text-align: center;"><b>Spreadsheets</b></p>	<ul style="list-style-type: none"> <li>To know what a spreadsheet looks like</li> <li>To know how to use a spreadsheet to add up values</li> </ul> <p><u>Resources</u></p> <ul style="list-style-type: none"> <li><a href="#">Purple Mash</a> <ul style="list-style-type: none"> <li><a href="#">2Calculate</a></li> </ul> </li> </ul>	<p>Arrow keys Backspace key Cursor Columns Cells Clipart Count Tool Delete key Lock tool Move cell tool Rows, Spreadsheet</p>	<ul style="list-style-type: none"> <li>To know what a spreadsheet program looks like.</li> <li>How to enter data into spreadsheet cells.</li> </ul>	<p>BLP</p> <ul style="list-style-type: none"> <li>Perseverance</li> <li>Questioning</li> <li>Noticing making links</li> </ul> <p>SMSC</p> <ul style="list-style-type: none"> <li>Reflection</li> <li>Understand consequences</li> <li>Participate, volunteer and cooperate</li> </ul>	<ul style="list-style-type: none"> <li>Global skill applicable to most jobs</li> <li>Admin Team Member/Admin Team Manager</li> <li>Accountant</li> <li>Software Developer</li> <li>Web Developer</li> </ul>
<p style="text-align: center;">S u m m e r 2</p>	<p style="text-align: center;"><b>Technology Outside School</b></p>	<ul style="list-style-type: none"> <li>To begin to understand what technology is.</li> <li>To question whether technology makes our life easier</li> </ul> <p><u>Resources</u></p> <ul style="list-style-type: none"> <li><a href="#">Purple Mash</a> <ul style="list-style-type: none"> <li><a href="#">2Publish Plus</a></li> </ul> </li> </ul>	<p>Technology</p>	<ul style="list-style-type: none"> <li>To walk around the local community and find examples of where technology is used.</li> <li>To record examples of technology outside school.</li> </ul>	<p>BLP</p> <ul style="list-style-type: none"> <li>Noticing</li> <li>Making links</li> <li>Questioning</li> <li>Imitation</li> </ul>	<ul style="list-style-type: none"> <li>Global skill applicable to most jobs</li> </ul>