

Computing High Level Plan

	Autumn	Spring	Summer
Y1	<p>1.1 – Online Safety and Exploring Purple Mash</p> <p><u>Content:</u></p> <ul style="list-style-type: none"> • Avatars • Saving files <p><u>Themes:</u></p> <ul style="list-style-type: none"> • Saving and retrieving files • Sharing files <p><u>Summative assessment:</u> Knowledge Assessment</p>	<p>1.4 – Lego Builders</p> <p><u>Content:</u></p> <ul style="list-style-type: none"> • Instructions • Recipes <p><u>Themes:</u></p> <ul style="list-style-type: none"> • Following algorithms • Debugging <p><u>Summative assessment:</u> Knowledge Assessment Followed algorithms</p>	<p>1.7 Coding</p> <p><u>Content:</u></p> <ul style="list-style-type: none"> • Code and coding blocks • Scripts • Commands <p><u>Themes:</u></p> <ul style="list-style-type: none"> • Designing backgrounds and characters for a game <p><u>Summative assessment:</u> Knowledge Assessment Designed aspects of a game</p>
	<p>1.2 – Grouping and Sorting</p> <p><u>Content:</u></p> <ul style="list-style-type: none"> • Criteria • Hovering a mouse <p><u>Themes:</u></p> <ul style="list-style-type: none"> • Grouping objects and images <p><u>Summative assessment:</u> Knowledge Assessment</p>	<p>1.5 – Maze Explorers</p> <p><u>Content:</u></p> <ul style="list-style-type: none"> • Clicking on directions • Instructions <p><u>Themes:</u></p> <ul style="list-style-type: none"> • Moving images in different directions <p><u>Summative assessment:</u> Knowledge Assessment Designing a route for an image</p>	<p>1.8 Spreadsheets</p> <p><u>Content:</u></p> <ul style="list-style-type: none"> • Calculations • Clipart • Cell <p><u>Themes:</u></p> <ul style="list-style-type: none"> • Algorithms • Formula <p><u>Summative assessment:</u> Knowledge Assessment Information added to a spreadsheet</p>
	<p>1.3 - Pictograms</p> <p><u>Content:</u></p> <ul style="list-style-type: none"> • Images • Data <p><u>Themes:</u></p> <ul style="list-style-type: none"> • Creating pictograms <p><u>Summative assessment:</u> Knowledge Assessment Pictogram</p>	<p>1.6 – Animated Story Books</p> <p><u>Content:</u></p> <ul style="list-style-type: none"> • E-books • Images and sounds <p><u>Themes:</u></p> <ul style="list-style-type: none"> • Animation • Copying and pasting text <p><u>Summative assessment:</u> Knowledge Assessment Individual e-books.</p>	<p>1.9 Technology Outside School</p> <p><u>Content:</u></p> <ul style="list-style-type: none"> • Technology <p><u>Themes:</u></p> <ul style="list-style-type: none"> • Types of technology in school • Types of technology at home <p><u>Summative assessment:</u> Knowledge Assessment</p>

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Y2	<p>2.1- Coding</p> <p><u>Content:</u></p> <ul style="list-style-type: none"> • Instructions • Bugs • Objects <p><u>Themes:</u></p> <ul style="list-style-type: none"> • Algorithm • Debugging <p><u>Summative assessment:</u> Knowledge Assessment Debugged program</p>	<p>2.4 - Questioning</p> <p><u>Content:</u></p> <ul style="list-style-type: none"> • Avatars can represent answers • Databases <p><u>Themes:</u></p> <ul style="list-style-type: none"> • Creating pictograms • Binary trees <p><u>Summative assessment:</u> Knowledge Assessment Binary trees</p>	<p>2.7 – Making Music</p> <p><u>Content:</u></p> <ul style="list-style-type: none"> • <u>Digital sounds</u> <p><u>Themes:</u></p> <ul style="list-style-type: none"> • Altering digital sounds • Uploading sounds <p><u>Summative assessment:</u> Knowledge Assessment Digitally altered sounds</p>
	<p>2.2 – Online Safety</p> <p><u>Content:</u></p> <ul style="list-style-type: none"> • Digital footprint • Sharing <p><u>Themes:</u></p> <ul style="list-style-type: none"> • Email safety • Sharing files <p><u>Summative assessment:</u> Knowledge Assessment</p>	<p>2.5 – Effective Searching</p> <p><u>Content:</u></p> <ul style="list-style-type: none"> • Features of a search engine • Keywords <p><u>Themes:</u></p> <ul style="list-style-type: none"> • Search engines • <p><u>Summative assessment:</u> Knowledge Assessment</p>	<p>2.8 – Presenting Ideas</p> <p><u>Content:</u></p> <ul style="list-style-type: none"> • Facts • Correct answers <p><u>Themes:</u></p> <ul style="list-style-type: none"> • Quizzes • Concept maps • Powerpoint <p><u>Summative assessment:</u> Knowledge Assessment Powerpoint presentation</p>
	<p>2.3 - Spreadsheets</p> <p><u>Content:</u></p> <ul style="list-style-type: none"> • Data • Cells • Formulae <p><u>Themes:</u></p> <ul style="list-style-type: none"> • Tables • Block graphs <p><u>Summative assessment:</u> Knowledge Assessment Table and block graph</p>	<p>2.6 – Creating Pictures</p> <p><u>Content:</u></p> <ul style="list-style-type: none"> • Impressionism • Templates • Repeating patterns <p><u>Themes:</u></p> <ul style="list-style-type: none"> • Creating images in the style of an artist <p><u>Summative assessment:</u> Knowledge Assessment Impressionist pictures</p>	

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Y3	<p>3.1- Coding</p> <p><u>Content:</u></p> <ul style="list-style-type: none"> • Input/output • If statements • Debugging <p><u>Themes:</u></p> <ul style="list-style-type: none"> • Simulation • Algorithms <p><u>Summative assessment:</u> Knowledge Assessment Debugged program</p>	<p>3.4 – Touch Typing</p> <p><u>Content:</u></p> <ul style="list-style-type: none"> • Top row • Bottom row • Home row <p><u>Themes:</u></p> <ul style="list-style-type: none"> • Speed of typing <p><u>Summative assessment:</u> Knowledge Assessment</p>	<p>3.7 - Simulations</p> <p><u>Content:</u></p> <ul style="list-style-type: none"> • Simulations <p><u>Themes:</u></p> <ul style="list-style-type: none"> • Problem-solving • Puzzles <p><u>Summative assessment:</u> Knowledge Assessment Successfully completed computer simulations</p>
	<p>3.2 – Online Safety</p> <p><u>Content:</u></p> <ul style="list-style-type: none"> • Reliability • Password Security <p><u>Themes:</u></p> <ul style="list-style-type: none"> • PEGI restrictions <p><u>Summative assessment:</u> Knowledge Assessment</p>	<p>3.5 - Email</p> <p><u>Content:</u></p> <ul style="list-style-type: none"> • Communication • Formal/Informal writing <p><u>Themes:</u></p> <ul style="list-style-type: none"> • Sending and receiving emails • Adding attachments <p><u>Summative assessment:</u> Knowledge Assessment Sending and replying to emails</p>	
	<p>3.3 - Spreadsheets</p> <p><u>Content:</u></p> <ul style="list-style-type: none"> • Cells, rows and columns • Data • Formula <p><u>Themes:</u></p> <ul style="list-style-type: none"> • Graphs and charts • Cell location <p><u>Summative assessment:</u> Knowledge Assessment Graphs and charts</p>	<p>3.6 – Branching Databases</p> <p><u>Content:</u></p> <ul style="list-style-type: none"> • Data • Yes/No questions <p><u>Themes:</u></p> <ul style="list-style-type: none"> • Binary trees <p><u>Summative assessment:</u> Knowledge Assessment Independent binary trees</p>	<p>3.8 - Graphing</p> <p><u>Content:</u></p> <ul style="list-style-type: none"> • Fields • Data <p><u>Themes:</u></p> <ul style="list-style-type: none"> • Graphs • Presentation of data <p><u>Summative assessment:</u> Knowledge Assessment Graph presentation</p>

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Y4	<p>4.1- Coding</p> <p><u>Content:</u></p> <ul style="list-style-type: none"> • If/else statement • Repeat commands • Timer command <p><u>Themes:</u></p> <ul style="list-style-type: none"> • Control simulations <p><u>Summative assessment:</u> Knowledge Assessment Simulation</p>	<p>4.4 – Writing for different audiences</p> <p><u>Content:</u></p> <ul style="list-style-type: none"> • Fonts • Templates <p><u>Themes:</u></p> <ul style="list-style-type: none"> • Newspaper reports • Campaign posters and letters <p><u>Summative assessment:</u> Knowledge Assessment Newspaper report Campaign poster and letters</p>	<p>4.7 – Effective Searching</p> <p><u>Content:</u></p> <ul style="list-style-type: none"> • Keywords • Reliable information • Reputable websites <p><u>Themes:</u></p> <ul style="list-style-type: none"> • Search engines • Easter eggs <p><u>Summative assessment:</u> Knowledge Assessment</p>
	<p>4.2 – Online Safety</p> <p><u>Content:</u></p> <ul style="list-style-type: none"> • Malware • Plagiarism <p><u>Themes:</u></p> <ul style="list-style-type: none"> • Identity theft <p><u>Summative assessment:</u> Knowledge Assessment</p>	<p>4.5 - Logo</p> <p><u>Content:</u></p> <ul style="list-style-type: none"> • Simple instructions • Procedures • Repeat functions <p><u>Themes:</u></p> <ul style="list-style-type: none"> • Creating designs with procedures <p><u>Summative assessment:</u> Knowledge Assessment</p>	<p>4.8 – Hardware Investigators</p> <p><u>Content:</u></p> <ul style="list-style-type: none"> • Hardware • Software • Motherboard • CPU <p><u>Themes:</u></p> <ul style="list-style-type: none"> • Components of a computer <p><u>Summative assessment:</u> Knowledge Assessment</p>
	<p>4.3 - Spreadsheets</p> <p><u>Content:</u></p> <ul style="list-style-type: none"> • Formula • Spin tool <p><u>Themes:</u></p> <ul style="list-style-type: none"> • Graphs and charts • Budgeting <p><u>Summative assessment:</u> Knowledge Assessment Budgeting spreadsheet</p>	<p>4.6 – Animation</p> <p><u>Content:</u></p> <ul style="list-style-type: none"> • Onion-skinning • Animation <p><u>Themes:</u></p> <ul style="list-style-type: none"> • Flipbook animation • Stop motion animation <p><u>Summative assessment:</u> Knowledge Assessment Animations</p>	

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Y5	<p>5.1- Coding</p> <p><u>Content:</u></p> <ul style="list-style-type: none"> • Text variables • Simulations <p><u>Themes:</u></p> <ul style="list-style-type: none"> • Creating games with scores and timers <p><u>Summative assessment:</u> Knowledge Assessment Game with scores and timers</p>	<p>5.4 - Databases</p> <p><u>Content:</u></p> <ul style="list-style-type: none"> • Sorting, grouping and arranging <p><u>Themes:</u></p> <ul style="list-style-type: none"> • Collaborative databases <p><u>Summative assessment:</u> Knowledge Assessment Independent database</p>	<p>5.6 – 3D Modelling</p> <p><u>Content:</u></p> <ul style="list-style-type: none"> • 3D shapes • Nets • Polygons <p><u>Themes:</u></p> <ul style="list-style-type: none"> • Designing and printing nets • Assembling 3D models <p><u>Summative assessment:</u> Knowledge Assessment 3D Model</p>
	<p>5.2 – Online Safety</p> <p><u>Content:</u></p> <ul style="list-style-type: none"> • Encryption • Images • Referencing <p><u>Themes:</u></p> <ul style="list-style-type: none"> • Bibliography • Digital image alteration <p><u>Summative assessment:</u> Knowledge Assessment</p>		
	<p>5.3 – Spreadsheets</p> <p><u>Content:</u></p> <ul style="list-style-type: none"> • Formula • Models <p><u>Themes:</u></p> <ul style="list-style-type: none"> • Converting measurements • Budgeting <p><u>Summative assessment:</u> Knowledge Assessment Cake sale spreadsheet</p>		

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Y6	<p>6.1- Coding</p> <p><u>Content:</u></p> <ul style="list-style-type: none"> • Functions • Flowcharts • Testing and debugging <p><u>Themes:</u></p> <ul style="list-style-type: none"> • Programming design • Designing text-based adventures <p><u>Summative assessment:</u></p> <p style="padding-left: 40px;">Knowledge Assessment Text-based adventure</p>	<p>6.4 - Blogging</p> <p><u>Content:</u></p> <ul style="list-style-type: none"> • Blogs are webpages • <p><u>Themes:</u></p> <ul style="list-style-type: none"> • Creating blog posts • Sharing blog posts • Commenting on blog posts <p><u>Summative assessment:</u></p> <p style="padding-left: 40px;">Knowledge Assessment Blog</p>	<p>6.6 - Networks</p> <p><u>Content:</u></p> <ul style="list-style-type: none"> • World Wide Web • WAN and LAN • Router <p><u>Themes:</u></p> <ul style="list-style-type: none"> • History and future of the internet <p><u>Summative assessment:</u></p> <p style="padding-left: 40px;">Knowledge Assessment History/Future of the internet presentation</p>
	<p>6.2 – Online Safety</p> <p><u>Content:</u></p> <ul style="list-style-type: none"> • Digital footprint • Screen-time • Phishing <p><u>Themes:</u></p> <ul style="list-style-type: none"> • Designing Online Safety games <p><u>Summative assessment:</u></p> <p style="padding-left: 40px;">Knowledge Assessment</p>		
	<p>6.3 - Spreadsheets</p> <p><u>Content:</u></p> <ul style="list-style-type: none"> • Formula • Probability <p><u>Themes:</u></p> <ul style="list-style-type: none"> • Planning events • Budgeting money <p><u>Summative assessment:</u></p> <p style="padding-left: 40px;">Knowledge Assessment Real-life simulation – budgeting</p>		