



Alton Park Junior School Progression of Skills for Computing

| Year 3 | | | | | | Year 4 | | | | | | Year 5 | | | | | | Year 6 | | | | | |
|---|----|----|----|-----|-----|---|----|----|----|-----|-----|--|----|----|----|-----|-----|--|----|----|----|-----|-----|
| A1 | A2 | S1 | S2 | Su1 | Su2 | A1 | A2 | S1 | S2 | Su1 | Su2 | A1 | A2 | S1 | S2 | Su1 | Su2 | A1 | A2 | S1 | S2 | Su1 | Su2 |
| <p>Online Safety Digital Literacy</p> <p>I can create and choose an appropriate password and keep this safe.</p> <p>I can understand that some information in the internet may not be true.</p> <p>I can understand the impact of cyberbullying and deal with this in the correct way.</p> <p>Touch Typing Computer Science</p> <p>I can understand the different keys on a keyboard.</p> <p>I can use two hands to type letters on a keyboard.</p> | | | | | | <p>Online Safety Digital Literacy</p> <p>I can explain how to protect myself from online phishing and recognise my digital footprint.</p> <p>I can identify risks and benefits of installing software onto a device.</p> <p>I can explain plagiarism and know the difference between researching and copying.</p> <p>I can recognise and take ownership of healthy screen-time.</p> <p>Hardware Investigators</p> <p>I can name the different parts of a computer</p> <p>I can understand the functions of different parts of a computer.</p> | | | | | | <p>Online Safety Digital Literacy</p> <p>I can identify people to speak to about things that upset me online.</p> <p>I can identify what is appropriate and inappropriate information and media to share online and the impact of these.</p> <p>I can cite all sources when researching and use techniques to increase reliability.</p> <p>I can understand the advantages and disadvantages of different forms of communication and when it is appropriate to use each.</p> <p>Concept Maps</p> <p>I can understand concept maps and the importance of recording these visually.</p> <p>I can create a basic concept map.</p> | | | | | | <p>Online Safety Digital Literacy</p> <p>I can recognise how to protect my digital footprint and where to go for help.</p> <p>I can understand how what I share impacts myself and others including the consequences of promoting inappropriate content online.</p> <p>I can take ownership of how I use my free time and have a balanced, healthy screen-time.</p> <p>Networks</p> <p>I can understand the difference between the World Wide Web and the internet.</p> <p>I can understand and explain my school network.</p> | | | | | |



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| | | | | | | | | | | | | | | | | | | I can research and explain about Tim Berners-Lee. | | | | | |
| A1 | A2 | S1 | S2 | Su1 | Su2 | A1 | A2 | S1 | S2 | Su1 | Su2 | A1 | A2 | S1 | S2 | Su1 | Su2 | A1 | A2 | S1 | S2 | Su1 | Su2 |
| Coding | | | | | | Coding | | | | | | Coding | | | | | | Coding | | | | | |
| I can create an algorithm that includes a variable. | | | | | | I can create an algorithm using if/else buttons. | | | | | | I can use a simplified code to make my programming more efficient. | | | | | | I can use functions and understand why these are useful when coding. | | | | | |
| I can explain how a command can be repeated. | | | | | | I can explain what a variable is and change this where necessary. | | | | | | I can create an algorithm after decomposing a simulation. | | | | | | I can follow flowcharts to create and debug code. | | | | | |
| I can debug simple programs | | | | | | I can create an algorithm modelling on a simple game. | | | | | | I can create a program representing a physical system. | | | | | | I can plan a program before coding and foresee the variables required to achieve the chosen effect. | | | | | |
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| A1 | A2 | S1 | S2 | Su1 | Su2 | A1 | A2 | S1 | S2 | Su1 | Su2 | A1 | A2 | S1 | S2 | Su1 | Su2 | A1 | A2 | S1 | S2 | Su1 | Su2 |
| Spreadsheets | | | | | | Spreadsheets | | | | | | Spreadsheets | | | | | | Spreadsheets | | | | | |
| I can create a pie chart and bar chart from a spreadsheet. | | | | | | I can use a formula in my spreadsheet. | | | | | | I can create a formula to convert measurements in a spreadsheet. | | | | | | I can use a spreadsheet to complete basic calculation formulae. | | | | | |
| I can compare numbers to work out solutions to calculations. | | | | | | I can create a line graph using data from a spreadsheet. | | | | | | I can create formulae that uses different variables. | | | | | | I can recognise how a formula allows data to change automatically. | | | | | |
| I can describe the location of a cell. | | | | | | | | | | | | | | | | | | | | | | | |



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| Graphing | I can use a spreadsheet to budget an event. | I can use a spreadsheet to model a real-life situation. | I can use a spreadsheet to model a situation. |
| I can produce and share graphs made on a computer. | | | I can use spreadsheets to organise data and understand what a delimiter is. |
| I can solve a maths investigation using graphs. | | | I can incorporate formulae of calculations into my spreadsheets. |
| I can present my results in a range of graphical formats. | | | |
| A1 A2 S1 S2 Su1 Su2 | A1 A2 S1 S2 Su1 Su2 | A1 A2 S1 S2 Su1 Su2 | A1 A2 S1 S2 Su1 Su2 |
| Email | Animation | Databases | Understanding Binary |
| I can open and respond to an email. | I can use the onion skin tool to create an animation. | I can search a database to answer questions. | I can explain how all data in a computer is saved in the computer memory in binary format. |
| I can be safe using an email. | I can create an idea for a stop motion animation. | I can create a database. | I can convert numbers to binary using the division by two method. |
| I can attach work to an email. | Logo | | |
| | I can follow simple instructions to create shapes. | | |
| | I can write and use the repeat function of logo instructions to draw shapes. | | |



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| | | | | | | I can make predictions. | | | | | | | | | | | | | | | | | |
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| A1 | A2 | S1 | S2 | Su1 | Su2 | A1 | A2 | S1 | S2 | Su1 | Su2 | A1 | A2 | S1 | S2 | Su1 | Su2 | A1 | A2 | S1 | S2 | Su1 | Su2 |
| Presenting | | | | | | Writing for different audiences | | | | | | Word processing | | | | | | Quizzing | | | | | |
| <p>I can make a presentation from a blank page.</p> <p>I can add variables to a presentation.</p> <p style="text-align: center;">Branching databases.</p> <p>I can generate questions using yes or no answers.</p> <p>I can create a branching database.</p> | | | | | | <p>I can discuss a variety of written material where the fonts are appropriate.</p> <p>I can use a simulated scenario to produce appropriate writing depending on the audience.</p> <p style="text-align: center;">Effective searching</p> <p>I can use a search engine to locate specific information.</p> <p>I can analyse what I have read to assess whether the information is true or reliable.</p> | | | | | | <p>I can create a word processing document.</p> <p>I can use appropriate texts and images and know which ones are permitted to use.</p> <p style="text-align: center;">Game Creator</p> <p>I can analyse and review a computer game.</p> <p>I can design a computer game.</p> <p>I can change the sounds and visuals to make a game more unique.</p> | | | | | | <p>I can understand different types of quizzes.</p> <p>I can create a quiz with a variety of style of questions.</p> <p style="text-align: center;">Blogging</p> <p>I can create a blog with a specific purpose.</p> <p>I understand that the way in which information is presented has an impact upon the audience.</p> <p>I can assess the effectiveness and impact of a blog.</p> | | | | | |
| A1 | A2 | S1 | S2 | Su1 | Su2 | A1 | A2 | S1 | S2 | Su1 | Su2 | A1 | A2 | S1 | S2 | Su1 | Su2 | A1 | A2 | S1 | S2 | Su1 | Su2 |
| Simulations | | | | | | Making music | | | | | | Modelling | | | | | | Text adventures | | | | | |
| <p>I can give advantages and disadvantages of simulations.</p> <p>I can make predictions using simulations.</p> | | | | | | <p>I can create a simple melodic pattern.</p> | | | | | | <p>I can edit the polygon 3D models to design a 3D model for a purpose.</p> | | | | | | <p>I can use coding concepts of functions, two-way selection (if/else statements) and repetition</p> | | | | | |



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| I can evaluate a simulation. | I can explore and understand how music is created. | I can create a 2D net to build a 3D model. | in conjunction with one another to code my game. I can debug my game. |
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Purple Mash Units

Google Classroom units