**Computing Coverage – 2023-2024 using Purple Mash**

*Definitions for vocabulary on knowledge organisers in year specific folder in Computing Subject Leader file, G:Drive*.

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| **Aut 1** | **Aut 2** | **Spr 1** | **Spr 2** | **Sum 1** | **Sum 2** |
| Reception  ICT integrated into play based learning | IWB, role play toys such as till, phones,  wind up toys, IPAD games  Introduce Mini Mash as part of continuous provision | | | | |
| **Year 1**  Logging in to Chromebooks and PM  **1.1 Online safety and exploring purple mash**  Wk1 & 2 – Safe logins  Wk3 & 4 My work area  WK4 & 5 Purple mash topics | **Year 1**  Logging in to Chromebooks and PM  **1.2 Grouping and sorting**  WK1& 2- Sorting away from the computer  WK3 & 4 – Sorting on the computer | **Year 1**  Logging in to Chromebooks and PM  **1.3 Pictograms**  WK1 & 2 – Data in pictures  WK3 &4 – class pictogram  WK5 & 6 – Recording results | **Year 1**  Logging in to Chromebooks and PM  **1.7 Coding**  WK1 & 2 – Instructions  WK3 & 4 – Objects and actions  WK5 & 6 – Events | **Year 1**  Logging in to Chromebooks and PM  **1.9 Technology outside school**  WK1 & 2 – What is technology?  W3 & 4 – Technology outside school | **Revision of skills**  Login independently  Stay safe online  Open programmes  Save work  Use 2dos  Confident use of vocab |
| **VOCABULARY 1.1**  *Alert, device, login, my work area, private, notification, log out, file name, avatar, button, icon, menu, password* | **VOCABULARY 1.2**  *Criteria, sort, groups* | **VOCABULARY 1.3**  *Collect data, compare, data, title, pictogram, record results* | **VOCABULARY 1.7**  Action, code, event, algorithm, command, execute, event, debug/debugging, background, object, output, run, scale, scene, sound, properties, sound, when clicked | **VOCABULARY 1.9**  Computer, technology |  |
| **Year 2**  **2.1 Coding**  WK1 – Algorithms  WK2 – Collision detection  WK3 – Using a timer  WK4 – Different object types  WK5 – Buttons  WK6 – Debugging | **Year 2**  **2.2 Online Safety**  WK1 – Searching and sharing  WK2 – Email using 2respond  WK3 – Digital footprint  **2.3 Spreadsheets**  WK4- Reviewing use of spreadsheets  WK5 – Copy/cut/paste totals  WK6 – Using a spreadsheet to add totals  WK7 – Creating a table and block graph | **Year 2**  **2.4 Questioning**  WK1 – Using and creating pictograms  WK2 – Asking yes/No questions  WK3 – Binary Trees  WK4 – Binary Database  WK5 – Non-Binary Database | **Year 2**  **2.5 Effective Searching**  WK1 – Understanding the internet and searching  WK2 – Searching the internet  WK3 – Sharing knowledge of the internet and effective searching  **2.6 Creating Pictures**  WK4 – Introduction and impressionism  WK5 – Pointillist Art  WK6 – Piet Mondrian | **Year 2**  **2.6 Creating Pictures**  **(cont)**  WK1 - William Morris and Pattern  WK2 – Surrealism and Collage  **2.7 Making Music**  WK3 – Introducing 2sequence  WK4 - Making Music  WK5 - Soundtracks | **Year 2**  **2.8 Presenting ideas**  WK1 – Presenting a story three ways  WK2 – Presenting ideas as a quiz  WK3 – Making a non-fiction fact file  WK4 – Making a presentation |
| **VOCABULARY 2.1**  *Implement, instructions, interaction, object, interval, output, run* | **VOCABULARY 2.2**  *Attachment, filter, private information, digital footprint, internet, search, sharing, email, personal information, secure*  **VOCABULARY 2.3**  *Block graph, cell, column, row, copy, drag, label, totals, count tool, equal, data, speak tool, equals tool* | **VOCABULARY 2.4**  *Binary tree, field, record, search, pictogram, data, sort, question, database* | **VOCABULARY 2.5**  *Digital footprint, network, web page, domain, search engine, world wide web, internet, website, web address*  **VOCABULARY 2.6**  *Art, palette, style, fill, pointillism, surrealism, impressionism* | **VOCABULARY 2.7**  *Beat, tune, speed, tempo, note, soundtrack, volume, compose* | **VOCABULARY 2.8**  *E-Book, fact file, fiction, non-fiction, quiz, node, mind map, presentation* |
| **Year 3**  **3.1 Coding**  WK1 – Using flowcharts  WK2 – Using timers  WK3 – Using repeat  WK4 – Code, test, debug  WK5 & 6 – Design and make n interactive scene | **Year 3**  **3.2 Online Safety**  WK1 – Safety in numbers  WK2 – Fact or fiction  WK3 – Appropriate content and ratings  **3.3 Spreadsheets**  WK4 – Creating pie charts and bar graphs  WK5 – More than, less than, spin button tools  WK6 – Advance mode and cell addresses | **Year 3**  **3.4 Touch typing (4 weeks)**  WK1 – Home, top and bottom row keys  WK2 – Home, top and bottom row keys (consolidation)  WK3 – left keys  WK4 – right keys | **Year 3**  **3.5 Email**  WK1 – Communication  WK2 – Composing emails  WK3 – Using email safely Part 1  WK4 – Using email safely part 2  WK5 – Attachments  WK6 – Email simulations | **Year 3**  **3.6 Branching Databases**  WK1 – Introducing databases  WK2 – Branching databases  *WK3 & 4 – Creating a branching database on a computer* | **Year 3**  **3.7 Simulations**  WK1 – What are simulations?  WK2 – Exploring a simulation  WK3 – Analysing and evaluating a simulation  **3.8 Graphing**  WK4 – Introducing 2graph  WK5 – Using 2graph to solve an investigation |
| **VOCABULARY 3.1**  *Action, background, click event, command, code, bug, alert, Button, algorithm, debugging, collision detection event* | **VOCABULARY 3.2**  Appropriate, inappropriate, blog, vlog, password, spoof, internet, personal information, verify, permission, website, reputable source, reliable source,  **VOCABULARY 3.3**  *Advance mode, bar graph, equals, rows, columns, cell address, data, more than, less than, pie chart, quiz tool, spin tool, spreadsheet, table* | **VOCABULARY 3.4**  *Posture, keys, space bar, typing*  *contact, personal information, address book* | **VOCABULARY 3.5**  *Attachment, CC, email, inbox, save to draft, communication, BCC, draft, compose, password, trusted* | **VOCABULARY 3.6**  *Data, debugging, binary tree, database, branching database* | **VOCABULARY 3.7**  *Analysis, modelling, simulation, decision, evaluation*  **VOCABULARY 3.8**  Axis, data, row, chart, graph, sorting, column, investigation, tally chart |
| **Year 4**  **4.1 Coding**  WK1 – Design, code, test, debug  WK2 – IF Statements  WK3 – Co-ordinates  WK4 – Repeat until IF/ELSE statements  WK5 – Number variables | **Year 4**  **4.2 Online safety**  WK1 – Going phishing  WK2 – Beware malware  WK3 – Plagiarism  WK4 – Healthy screen time | **Year 4**  **4.3 Spreadsheets**  WK1 -Formula wizard and formatting cells  WK2 - Using the timer and spin buttons  WK3 - Line graphs  WK4 - Using a spreadsheet for budgeting  WK5 - Exploring place values with a spreadsheet | **Year 4**  **4.4 Writing for different audiences**  WK1 – Font styles  WK2 & 3 – Using a simulated scenario to produce a news report  WK4 & 5 Writing for a campaign | **Year 4**  **4.5 Logo**  WK1 – Introduction to LOGO  WK2 – Creating letters using 2Logo  WK3 – Using the repeat command in 2Logo  WK4 – Using procedures  **4.6 Animation**  WK5 – Animating an object  WK6 – Animate tools  WK7 – Stop motion animation | **Year 4**  **4.7 Effective search**  WK1 – Use a search engine  WK2 – Use search effectively to answer questions  WK3 – Reliable information sources  **4.8 Hardware investigators**  WK4 – Hardware  WK5 – Parts of a computer |
| **VOCABULARY 4.1**  Action, alert, background, command, execute, button, Debug/debugging, Algorithm, code blocks, design | **VOCABULARY 4.2**  AdFly, citation, attachment, collaborate, cookies, copyright, phishing, malware, plagiarism, digital footprint, ransomware, spam, virus, watermark, SMART rules | **VOCABULARY 4.3**  Average, spreadsheet, formula, column, budget, chart, data, timer, percentage, format cell, decimal place, row, formula wizard, spin tool, random number tool, line graph, equals tool | **VOCABULARY 4.4**  Campaign, format, font, genre, opinion reporter, viewpoint | **VOCABULARY 4.5**  Debugging, Grid, LOGO, Pen down, procedure, multi-line mode, pen up, prediction, LOGO commands, repeat, SETPS, SETPC, run time  **VOCABULARY 4.6**  Animation, onion skinning, pause, frame, stop motion, FPS (frames per second) | **VOCABULARY 4.7**  Balanced view, Easter eggs, internet, key words, reliability, results page, search engine  **VOCABULARY 4.8**  Components, CPU, graphics card, hard drive, input, motherboard, network card, output, RAM, software, peripherals |
| **Year 5**  **5.1 Coding**  WK1 – Coding efficiency  WK2 – Simulating a physical system  WK3 –Decomposition and abstraction  WK4 – Friction and functions  WK5 – Introducing strings  WK 6 – Text variables and concatenation | **Year 5**  **5.2 Online safety**  WK1 – Responsibilities and support when online  WK2 – Protecting privacy  WK3 – Citing sources  WK4 - Reliability  **5.3 Spreadsheets**  WK5 – Conversions of measurements  WK6 – The count tool | **Year 5**  **5.4 Databases**  WK1 – Formulae including the Advanced mode  WK2 –Using text variables to perform calculations  WK3 – Event planning with a spreadsheet  **5.4 Databases**  WK4 – Searching a database  WK5 – Creating a database  WK 6&7 Creating a topic database | **Year 5**  **5.5 Game creator**  WK1 – Setting the scene  WK2 – Creating the game environment  WK3 – The game quest  WK4 – Finishing and sharing  WK5 - Evaluation | **Year 5**  **5.6 3D modelling**  WK1 – Introducing 2design and make  WK2 – moving points  WK3 – designing for a purpose  WK4 – Printing and making  **5.7 Concept maps**  WK1 - Introduction to concept mapping  WK2 - Using 2connect | **Year 5**  **5.7 Concept maps (cont)**  WK1 - Using 2connect story mode  WK2 - Collaborative concept maps  **5.8 Word processing with Google Docs**  WK3 – Making a document and considering copyright  WK4 – Editing images, adding texts, finishing touches  WK5 – sharing files, presenting information using tables  WK6 – Letter writing using a template |
| **VOCABULARY 5.1**  Algorithm, abstraction, decomposition, flowchart, concatenation, efficient, debug/debugging, event, nesting, function, input, object, output, repeat, sequence, simplify, selection, properties, physical system | **VOCABULARY 5.2**  *Citation, copyright, identity theft, PEGI ratings, password, reliable source, validity, spoof, Personal information, malware, phishing, SMART rules, ownership, Encrypt, collaborate, communication, creative commons license*  **VOCABULARY 5.3**  *Rows, data, advance mode, spreadsheet, columns, format, formula, formula bar, totalling tool, variable, formula wizard, how many tool* | **VOCABULARY 5.4**  *Arrange, avatar, chart, database, data, field, collaborative, group, database report, record, search, sort, statistics* | **VOCABULARY 5.5**  *Animation, computer game, image, texture, instructions, perspective, screenshot, playability, interaction, customise, evaluation* | **VOCABULARY 5.6**  *2D, 3D, 3D printing, Nets, points, template, pattern fill, design brief, CAD – computer aided design*  **VOCABULARY 5.7**  *Concept, collaborate, story mode, node, concept map, connection, presentation mode* | **VOCABULARY 5.8**  Copy and paste, bulleted list, caps lock, creative commons, copyright, document, font, captions, hyperlink, formatting, merge cells, page orientation, readability, text wrapping, document, word art, word processing tool |
| **Year 6**  **6.1 Coding**  WK1 & 2 – Designing and making a more complex program  WK3 – Using functions  WK4 – Flowcharts and control simulations  WK5 - User input  WK 6- Text based adventures | **Year 6**  **6.2 Online Safety**  WK1 - Message in a game  WK2 - Online behaviour  WK3 - Screen time  **6.3 Spreadsheets**  WK4 – Exploring probability  WK5 – Creating a computational model  WK6 – Using a spreadsheet to plan pocket money spending  WK7 – Planning a school event | **Year 6**  **6.4 Blogging**  WK1 – What is a blog?  WK2 – Planning a blog  WK3 – Writing a blog  WK4 –Sharing a post and commenting | **Year 6**  **6.5 Text Adventures**  WK1 – What is a text adventure? Planning a story adventure  WK2 – Making a story- based adventure game  WK3 – Introducing map- based text adventures  WK4 – Coding a Map-based text adventure | **Year 6**  **6.6 Networks**  WK1 - The world wide web and the internet  WK2 - Our school network and accessing the internet  WK3 - Research  **6.7 Quizzing**  WK4 – Introducing 2DIY  WK5 & 6 – Using 2quiz  WK7 – Exploring grammar quizzes | **Year 6**  **6.7 Quizzing**  WK1 - A database quiz  WK2 – Are you smarter than a ten year old?  **6.8 Binary**  WK3 – What is binary  WK4 – Counting in binary  WK5 – converting from decimal to binary  WK6- Game states |
| **VOCABULARY 6.1**  *Action, coordinates, execute/run, event, algorithm, command, decomposition, flowchart, debug/debugging, function, input, selection, object, procedure, properties, sequence, simulation, launch card, output, predict, repeat, repeat until, tab, timer, variable* | **VOCABULARY 6.2**  Data analysis, digital footprint, inappropriate, spoof, PEGI rating, screen time, secure website, password, location sharing, phishing  **VOCABULARY 6.3**  Rows, columns, data, spreadsheet, formula, advance mode, budget, chart, expense, dice tool, format cell, formula bar, formula wizard, profit, count (how many) tool, probability, move cell tool, | **VOCABULARY 6.4** Approval, blog, blog post, commenting, vlog, collaborate, archive | **VOCABULARY 6.5**  Text based adventure, sprite, selection, debug/debugging, function | **VOCABULARY 6.6**  Hub/switch,network, LAN Local area network, internet, wi-fi, router, World wide web, WAN wide area network,  **VOCABULARY 6.7**  Audience, audio, clone, cloze, case-sensitive, preview, quiz | **VOCABULARY 6.8**  Base 2, Base 10, bit, digit, integer switch, transistor, byte, nibble, kilobyte, megabyte, gigabyte, terabyte |