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

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

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Aut 1** | **Aut 2** | **Spr 1** | **Spr 2** | **Sum 1** | **Sum 2** |
| ReceptionICT integrated into play based learning |  IWB, role play toys such as till, phones, wind up toys, IPAD gamesIntroduce 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 loginsWk3 & 4 My work areaWK4 & 5 Purple mash topics | **Year 1**Logging in to Chromebooks and PM**1.2 Grouping and sorting**WK1& 2- Sorting away from the computerWK3 & 4 – Sorting on the computer | **Year 1**Logging in to Chromebooks and PM**1.3 Pictograms**WK1 & 2 – Data in pictures WK3 &4 – class pictogramWK5 & 6 – Recording results | **Year 1**Logging in to Chromebooks and PM**1.7 Coding**WK1 & 2 – InstructionsWK3 & 4 – Objects and actionsWK5 & 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 independentlyStay safe onlineOpen programmes Save workUse 2dosConfident 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 – AlgorithmsWK2 – Collision detectionWK3 – Using a timerWK4 – Different object typesWK5 – ButtonsWK6 – Debugging  | **Year 2****2.2 Online Safety** WK1 – Searching and sharingWK2 – Email using 2respondWK3 – Digital footprint**2.3 Spreadsheets** WK4- Reviewing use of spreadsheetsWK5 – Copy/cut/paste totalsWK6 – Using a spreadsheet to add totalsWK7 – Creating a table and block graph | **Year 2****2.4 Questioning**WK1 – Using and creating pictogramsWK2 – Asking yes/No questionsWK3 – Binary TreesWK4 – Binary DatabaseWK5 – Non-Binary Database | **Year 2****2.5 Effective Searching**WK1 – Understanding the internet and searchingWK2 – Searching the internetWK3 – Sharing knowledge of the internet and effective searching **2.6 Creating Pictures** WK4 – Introduction and impressionismWK5 – Pointillist Art WK6 – Piet Mondrian  | **Year 2****2.6 Creating Pictures****(cont)**WK1 - William Morris and PatternWK2 – Surrealism and Collage **2.7 Making Music**WK3 – Introducing 2sequenceWK4 - Making MusicWK5 - Soundtracks | **Year 2****2.8 Presenting ideas** WK1 – Presenting a story three waysWK2 – Presenting ideas as a quizWK3 – Making a non-fiction fact fileWK4 – 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 flowchartsWK2 – Using timersWK3 – Using repeatWK4 – Code, test, debugWK5 & 6 – Design and make n interactive scene | **Year 3****3.2 Online Safety** WK1 – Safety in numbersWK2 – Fact or fictionWK3 – Appropriate content and ratings**3.3 Spreadsheets**WK4 – Creating pie charts and bar graphsWK5 – More than, less than, spin button toolsWK6 – Advance mode and cell addresses | **Year 3****3.4 Touch typing (4 weeks)**WK1 – Home, top and bottom row keysWK2 – Home, top and bottom row keys (consolidation) WK3 – left keysWK4 – right keys | **Year 3****3.5 Email** WK1 – CommunicationWK2 – Composing emailsWK3 – Using email safely Part 1WK4 – Using email safely part 2WK5 – AttachmentsWK6 – Email simulations | **Year 3****3.6 Branching Databases**WK1 – Introducing databasesWK2 – Branching databases*WK3 & 4 – Creating a branching database on a computer*  | **Year 3****3.7 Simulations** WK1 – What are simulations? WK2 – Exploring a simulationWK3 – Analysing and evaluating a simulation**3.8 Graphing**WK4 – Introducing 2graphWK5 – 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, debugWK2 – IF StatementsWK3 – Co-ordinatesWK4 – Repeat until IF/ELSE statementsWK5 – Number variables | **Year 4****4.2 Online safety** WK1 – Going phishing WK2 – Beware malwareWK3 – Plagiarism WK4 – Healthy screen time | **Year 4****4.3 Spreadsheets**WK1 -Formula wizard and formatting cellsWK2 - Using the timer and spin buttonsWK3 - Line graphsWK4 - Using a spreadsheet for budgetingWK5 - Exploring place values with a spreadsheet | **Year 4****4.4 Writing for different audiences** WK1 – Font stylesWK2 & 3 – Using a simulated scenario to produce a news reportWK4 & 5 Writing for a campaign | **Year 4****4.5 Logo**WK1 – Introduction to LOGOWK2 – Creating letters using 2LogoWK3 – Using the repeat command in 2LogoWK4 – Using procedures**4.6 Animation**WK5 – Animating an objectWK6 – Animate toolsWK7 – Stop motion animation  | **Year 4****4.7 Effective search** WK1 – Use a search engineWK2 – Use search effectively to answer questions WK3 – Reliable information sources**4.8 Hardware investigators**WK4 – HardwareWK5 – 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 efficiencyWK2 – Simulating a physical systemWK3 –Decomposition and abstraction WK4 – Friction and functionsWK5 – Introducing stringsWK 6 – Text variables and concatenation | **Year 5****5.2 Online safety**WK1 – Responsibilities and support when onlineWK2 – Protecting privacy WK3 – Citing sourcesWK4 - Reliability**5.3 Spreadsheets**WK5 – Conversions of measurementsWK6 – The count tool | **Year 5****5.4 Databases**WK1 – Formulae including the Advanced modeWK2 –Using text variables to perform calculationsWK3 – Event planning with a spreadsheet**5.4 Databases**WK4 – Searching a databaseWK5 – Creating a databaseWK 6&7 Creating a topic database | **Year 5****5.5 Game creator** WK1 – Setting the sceneWK2 – Creating the game environment WK3 – The game questWK4 – Finishing and sharingWK5 - Evaluation | **Year 5****5.6 3D modelling** WK1 – Introducing 2design and makeWK2 – moving pointsWK3 – designing for a purposeWK4 – Printing and making**5.7 Concept maps**WK1 - Introduction to concept mappingWK2 - Using 2connect | **Year 5****5.7 Concept maps (cont)** WK1 - Using 2connect story modeWK2 - Collaborative concept maps**5.8 Word processing with Google Docs**WK3 – Making a document and considering copyright WK4 – Editing images, adding texts, finishing touchesWK5 – sharing files, presenting information using tablesWK6 – 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 programWK3 – Using functions WK4 – Flowcharts and control simulationsWK5 - User input WK 6- Text based adventures | **Year 6****6.2 Online Safety**WK1 - Message in a game WK2 - Online behaviourWK3 - Screen time **6.3 Spreadsheets** WK4 – Exploring probabilityWK5 – Creating a computational model WK6 – Using a spreadsheet to plan pocket money spendingWK7 – Planning a school event  | **Year 6****6.4 Blogging**WK1 – What is a blog?WK2 – Planning a blogWK3 – Writing a blogWK4 –Sharing a post and commenting  | **Year 6****6.5 Text Adventures**WK1 – What is a text adventure? Planning a story adventureWK2 – Making a story- based adventure gameWK3 – Introducing map- based text adventuresWK4 – Coding a Map-based text adventure | **Year 6****6.6 Networks**WK1 - The world wide web and the internetWK2 - Our school network and accessing the internetWK3 - Research **6.7 Quizzing**WK4 – Introducing 2DIY WK5 & 6 – Using 2quizWK7 – Exploring grammar quizzes  | **Year 6****6.7 Quizzing**WK1 - A database quizWK2 – Are you smarter than a ten year old?**6.8 Binary**WK3 – What is binaryWK4 – 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 |