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|  | **Autumn 1** | **Autumn 2** | **Spring 1** | **Spring 2** | **Summer 1** | **Summer 2** |
| **KS1** |  Rec | E-safety, settling in and introduction to Ipads and the computers <https://www.purplemash.com/#tab/keeping_safe>busy things <https://www.busythings.co.uk/play/> | Introduction to Busy things effect and programming games  | Phonics and maths games on busy things  | Knowledge and understanding the world and EAD Apps on Busy Things (using labelling drawing, sorting and matching apps)  | Keyboard mouse skills with busy things in the ICT suit | Purple mash (log, and how to use general tools and game in purple mash) |
| Year 1 | E-safety, logging in, how to create a safe password and keyboard and mouse skills. [**Teachers**](https://www.purplemash.com/)/[**Computing Scheme of Work**](https://www.purplemash.com/)/[**Year 1**](https://www.purplemash.com/)/Unit 1.1 - Online safetyExtension – Busythings – Keybaord mouse skills in addition to purple mash exercises | Purple Mash Units (teaching children about pictorial data and manipulation)Unit 1.2 (grouping) and 1.3 (Pictograms) | Purple MashAnimated Stories ( Unit 1.6)The series of lessons will provide an opportunity for the children to develop the skills to create, organise, store, manipulate and retrieve digital content through the creation of their own animated story book.  | Purple MashSpreadsheet 1.8 (children will be introduce to spreadsheet, they will add images to the spread sheet and use the ‘Speak and ‘Count’ in 2Calculate to count the items  | Coding in busy things and code studio Introduction to block programming(Go to busy things, Click on Key Stage One then Year One, click on Computing then click on coding).  | Coding in code studio Starting studio course B -Algorithms, Sequencing and Loops and Debugging |
| Year 2 | [E-safety – purple mash online safety](https://www.purplemash.com/#tab/Teachers/computing_sow/computing_sow_y2/computing_sow_y2_unit_2-2) (there are a lot of activities)Busy things : <https://www.busythings.co.uk/play/> | Unit 2.3 –(Purple mash) SpreadsheetsUsing and creating data charts on spread sheets | Unit 2.4 – Questioning and Data representation*This unit is designed to help children learn about the importance of phrasing questions and that certain datahandling resources are limited in the answers they can provide.* | Code studio – Course C *Visual block programming* | Purple mash Unit 2.5 Effective searchingTeachers/Computing SOW/Year 2Teaching children online how to search effectively and safely online | Purple mash Unit 2.6 and 2.7 Pictures and MusicTeachers/Computing SOW/Year 2Children will learn to create pictures and music in purple mash to add to their programming and work |
| **KS2** | Year 3 | E-safety – purple mash online safety[*https://www.purplemash.com/#tab/Teachers/*](https://www.purplemash.com/#tab/Teachers/)*computing\_sow/computing\_sow\_y3/**computing\_sow\_y3\_unit\_3\_2*Extension – purple mash timetable games and testing, spag and reading books. | Purple mash – Unit 3.6 Branching data bases | Code studio – Course D*Visual block programming* | Unit 3.8 –(Purple mash) GraphingUsing and creating graphs | Google introduction to Interland – tower of treasureKeeping data and accounts safe |  Code studio – Course D*Visual block programming - finish unit from Spring 1*Extension – EmailBusy things - science |
| Year 4 | E-safety – purple mash online safety[*PM SOW UNIT 4.2*](https://www.purplemash.com/#tab/Teachers/computing_sow/computing_sow_y4/computing_sow_y4_4-2)Extension – purple mash timetable games and testing, spag and reading books.*busy things :* [*https://www.busythings.co.uk/play/*](https://www.busythings.co.uk/play/)Safe search engine for children**:** <http://primaryschoolict.com/>Free advice on being safe online**:** <https://www.getsafeonline.org/>BBC Web wise**:** <http://www.bbc.co.uk/webwise/a-z/>  | [PM Unit 4.6 Animation](https://static.purplemash.com/mashcontent/applications/schemes_of_work/computing_schemes_of_work/computing_sow_year4_unit_4_6/Unit%204.6%20Animation.pdf)Making animations using the purple mash animation software[Extension – Effective Internet searching](https://static.purplemash.com/mashcontent/applications/schemes_of_work/computing_schemes_of_work/computing_sow_year4_unit_4_7/Unit%204.7%20-%20Effective%20Searching.pdf) | Purple mash Drawing and programming using LOGO[PM SOW UNIT 4.5](https://static.purplemash.com/mashcontent/applications/schemes_of_work/computing_schemes_of_work/computing_sow_year4_unit_4_5/Unit%204.5%20Using%20Logo.pdf) | [PM - Writing for different audiences, using online editors to produce reports on simulations](https://static.purplemash.com/mashcontent/applications/schemes_of_work/computing_schemes_of_work/computing_sow_year4_unit_4_4/Unit%204.4%20Writing%20for%20Different%20Audiences.pdf) | Google introduction to Interland – Kind KingdomHow to communicate and respond online effectively and safely | Code studio – Course E*Visual block programming* |
| Year 5 | E-safety – purple mash online safety[*PM SOW UNIT 5.2*](https://www.purplemash.com/#tab/Teachers/computing_sow/computing_sow_y5/computing_sow_y5_5-2)*Extension-*Unit 5.7 Concept MappingUseful tool as it will help children plan topics and their work this year | 3D Modelling[PM Unit 5.6](https://www.purplemash.com/#tab/Teachers/computing_sow/computing_sow_y5/computing_sow_y5_5-6) | *PM Spread sheets*[*PM UNIT 5.3*](https://www.purplemash.com/#tab/Teachers/computing_sow/computing_sow_y5/computing_sow_y5_5-3) | [PM Game creator](https://www.purplemash.com/#tab/Teachers/computing_sow/computing_sow_y5/computing_sow_y5_5-4)Design, plan and build an online game | Google introduction to Interland – Reality RiverSpotting the fake and secure communication | Code studio – Course F*Visual block programming* |
| Year 6 | E-safety – purple mash online safety[*PM SOW UNIT 6.2*](https://www.purplemash.com/#tab/Teachers/computing_sow/computing_sow_y5/computing_sow_y5_5-2)*Extension- purple mash**busy things :* [*https://www.busythings.co.uk/play/*](https://www.busythings.co.uk/play/)Safe search engine for children: <http://primaryschoolict.com/>Free advice on being safe online**:** <https://www.getsafeonline.org/>BBC Web wise**:** <http://www.bbc.co.uk/webwise/a-z/> **CEOP**: <https://www.ceop.police.uk/safety-centre/> | [PM Text Adventures](https://www.purplemash.com/#tab/Teachers/computing_sow/computing_sow_y6/computing_sow_y6_unit_6-5)Creating, planning and writing interactive stories and  | Code studio – CS Fundamentals: Express *Course taking them through the whole computing curriculum into KS3. Children will move at their own speed* | [PM Quizzing](https://www.purplemash.com/#tab/Teachers/computing_sow/computing_sow_y6/computing_sow_y6_unit_6-7)  | [PM Spreadsheets](https://www.purplemash.com/#tab/Teachers/computing_sow/computing_sow_y6/computing_sow_y6_unit_6-3)Planning and managing real events | Code studio – CS Fundamentals: Express *Course taking them through the whole computing curriculum into KS3. Children will move at their own speed* |
| Extension – Recap and go through E-Safety advice from Google Interland and advice from DFES, LGFL and NSPCC |