This curriculum provides a starting block for schools to embark on teaching an effective and engaging curriculum. In the recent *After the reboot: computing education in UK schools* (2018), it was stated that in order for children to leave school and “*to embark on successful professional careers and to become astute and responsible citizens...children should begin to study computing at the earliest age possible*”.

The resources are drawn mostly from the Purple Mash and Project Evolve units of work however there is a termly opportunity for students to link computing with another subject and create a piece of work more personalised to their individual experience as a student of Meldreth Primary. The planning has been divided into three sections: digital literacy, which incorporates E-Safety refreshed at the beginning of every term; computer science; and information technology.



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|  | **Autumn 1** | **Autumn 2** | **Spring 1** | **Spring 2** | **Summer 1** | **Summer 2** |
| **Year 1** | **E-safety: Project Evolve****Exploring Purple Mash****Grouping & Sorting** | **2Count: Pictograms****2DIY: Lego Builders** | **E-safety: Project Evolve****2Go: Maze Explorers** | **2Create A Story: Animated Story Books** | **E-safety: Project Evolve****2Code: Coding** | **2Calculate: Spreadsheets****Technology Outside School** |
| **Year 2** | **E-safety: Project Evolve****2Calculate: Spreadsheets** | **2Code: Coding** | **E-safety: Project Evolve****2Question/2Investiage: Questioning** | **Effective Searching****2Sequence: Making Music** | **E-safety: Project Evolve****2Paint A Picture: Creating Pictures** | **Presenting Ideas** |
| **Year 3** | **E-safety: Project Evolve****2Calculate: Spreadsheets** | **2Code: Coding** | **E-safety: Project Evolve****2Type: Touch Typing** | **2Email: Email & Email Safety** | **E-safety: Project Evolve****2Question: Branching Databases****2Simulate: Simulations** | **2Graph: Graphing****Google Slides: Presenting** |
| **Year 4** | **E-safety: Project Evolve****2Calculate: Spreadsheets** | **2Code: Coding** | **E-safety: Project Evolve****2Logo: Logo** | **Writing for different audiences** | **E-safety: Project Evolve****2Animate: Animation****Hardware Investigators** | **Effective Searching****Busy Beats: Making Music** |
| **Year 5** | **E-safety: Project Evolve****2Calculate: Spreadsheets** | **2Code: Coding** | **E-safety: Project Evolve****2Investigate: Databases** | **2Design & Make: 3D Modelling****2Connect: Concept Maps** | **E-safety: Project Evolve****2DIY 3D: Game Creator** | **Google Docs: Word Processing** |
| **Year 6** | **E-safety: Project Evolve****2Calculate: Spreadsheets** | **2Code: Coding** | **E-safety: Project Evolve****2Blog: Blogging**  | **2Code/2Connect: Text Adventures****Networks** | **E-safety: Project Evolve****2Quiz: Quizzing** | **2Code: Understanding Binary****Google Sheets: Spreadsheets** |

Termly Cross-Curricular Use of Computing:

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|  | **Autumn Term** | **Spring Term** | **Summer Term** |
| **Year 1** | **Maths – build on grouping and sorting skills by using the shape colour group sorting application on ipads.** | **English: Rewrite a Fairy Tale using the animated story book app** | **PE (OAA) – guiding a robot (blindfolded child) around school focusing on giving simple instructions for them to follow. Thinking of possible consequences of giving an incorrect instruction.** |
| **Year 2** | **English: Typing up letter to Santa** | **Music: Dragon theme tunes****Maths: Making block diagrams** | **Art: Creating pictures inspired by artists studied** |
| **Year 3** | **Topic: Type a post-card using Purple Mash as a summary of our topic.****RE: Use iPads to record videos re-telling a religious story.** | **Maths: Collect data and use Purple Mash 2Graph to create bar and pie charts.** | **English: Research countries of the world.** |
| **Year 4** | **Topic: Research on the area of topic we are learning about** **English: Type up stories** **Maths: Make statistics charts on Purple Mash to go with their Christmas advert debate - create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information**  | **English: Type up their newspaper articles all about natural disasters or climate change.**  | **Topic: Research on the area of topic we are learning about** **Topic: Digital**  |
| **Year 5** | **Art: Use Ipads to take pictures showcasing perspective then upload and edit** | **English: Type up and format Alma newspaper report in Google Docs with columns, images and captions** | **Maths: Collect data & use Google Sheets to present in a variety of ways, e.g. line graph, pie chart** |
| **Year 6** | **Art: Creating and designing kites using a variety of media (to include designing on PurpleMash alongside sketching, painting etc.).** | **PSHE: Use spreadsheets to create a budget (Financial Capability unit).****Science: Researching and presenting using Google Slides (Famous Scientists unit).** | **History: Researching a variety of sources to independently research and present an aspect of the history topic that they find interesting.****PSHE: Designing and formatting leaflets about moving to secondary school (Managing Change unit).** |

**Computing in EYFS:**

****Early Years Foundation Stage will explore a range of different cause & effect ICT resources and access Ipads, using programmes related to the child-led topics within the EYFS framework. Their learning will be centred around play-based, unplugged activities that focus on building children’s listening skills, curiosity, creativity and problem solving. They will use suitable age-related Purple Mash programmes to support their learning. They will use physical computing during role-play and have access to items such as Bee-bots as an early introduction to coding and programming and tablets and cameras to explore the world around them.