COMPUTING

SUBJECT NARRATIVE (June'19)

Little Melton Primary School

Computer Science (CS)	
Information technology (IT)	
Digital Literacy (DL) (*incl e-safety)	

Key Stage 1: Year 1 (*e-safety first week of each topic: 1. Smartie 2. DigiDuck 3-5. Jessie & Friends-ThinkUKnow 6. Espresso online safety computing 1)

Topic: Coding I
Tools: Scratch Junior– IPADS
Key Themes: Simple programmes

Topic: Video presentations
Tools: Puppet Pals, Comic Book– IPADS
Key Themes: Using photo sequences to tell a story

Topic: Making graphs
Tools: Purple Mash 2 Count
Key Themes: Collecting data, and presenting using pictograms

Topic: Giving commands
Tools: Purple Mash 2 Go, Espresso Coding 1A
Key Themes: Logo, controls, sequences

Topic: Writing an animated story
Tools: Espresso Computer driving licence 1, Purple Mash 2Create a story
Key Themes: Keyboards, animated story

Topic: Using email safely
Tools: Purple Mash 2email
Key Themes: Appropriate behaviour online, basic email skills

Key Stage 1: Year 2 (*e-safety first week of each topic: 1. Smartie 2. DigiDuck 3-5. Jessie & Friends-ThinkUKnow 6. Espresso online safety computing 1)

Topic: Coding II
Tools: Scratch Junior– IPADS
Key Themes: Simple programmes –build on year 1

Topic: Coding III
Tools: Purple Mash 2code, Espresso 2A
Key Themes: Programming sequences, debugging algorithms , barefoot computing

Topic: Developing keyboard skills
Tools: Espresso Computer driving licence 2, Purple Mash 2Type
Key Themes: Typing skills– build on year 1

Topic: Using email appropriately
Tools: Purple Mash 2email
Key Themes: Appropriate behaviour online, more advanced email skills

Topic: Presenting data
Tools: Purple Mash 2count 2graph , Espresso data-logging
Key Themes: Collecting presenting data

Topic: Presenting your ideas
Tools: Espresso Presentation Creator, Google Slides
Key Themes: Making a simple slide show

Lower Key Stage 2: Year 3/4 (Cycle A) (*e-safety first week of each topic: Espresso online safety unit Espresso digital literacy, Think U Know 6-7 units Think U Know– Band Runner last half term)

Topic: Logo
Tools: Purple Mash 2 Logo , Espresso 3a/4a
Key Themes: Giving directions, predictions and debugging, repeats and shape drawing– links to angles in maths

Topic: Internet safe searches
Tools: Google– safe searching

Topic: Interactive books
Tools: Book Creator (IPADS)
Key Themes: Exploring features of software, audience and impact, design and review cycle, sharing with an external audience (Snowy)

Topic: Making a quiz
Tools: Purple Mash2 Quiz

Topic: Data-Handling
Tools: Purple Mash 2 graph/2 count Google Sheets
Key Themes: Collecting data—evaluating different ways of presenting—creating a spreadsheet in Google sheets for graph

Topic: Using Google docs– saving files in drive
Tools: Google drive & docs

Lower Key Stage 2: Year 3/4 (Cycle B) (*e-safety first week of each topic: Smart Crew 3, Think U Know 6-7 units Espresso digital literacy-sorting facts and opinions Think U Know– Band Runner last half term)

Topic: Coding IV
Tools– Scratch Junior– iPADS Espresso 3a/4a
Key Themes: Advanced features of Scratch Junior– saving and exporting work– introduction to Scratch online

Topic: Collaborating
Tools: Google Drive- sharing docs
(Within topic)

Topic: Using email 2
Tools: Purple Mash 2email
Key Themes: Advanced layout, managing an address book, iuse of favourites, forwarding and copying in, etiquette

Topic: Internet safe searches 2
Tools: Google– safe searching (within topic)

Topic: Making a branching database
Tools: Purple Mash 2question
Key Themes: Creating a paper based database-data collection– presenting results using iCT, creating computerised system– uses?

Topic: Making a presentation
Tools: Google slides
(Within topic)

Upper Key Stage 2: Year 5/6 (Cycle A) (*e-safety first week of each topic Think U Know Jigsaw, Play Like Share, #Live Skills, Band Runner, Kara Winston & The Safe Crew, Espresso e-safety unit)

Topic: Let There Be Dragons! **Tools:** Chromebooks
Key Themes: On-line safety PLAY LIKE SHARE (Think U Know Workbook L2) Use technology safely, respectfully and responsibly: recognise acceptable/ unacceptable behaviour; identify a range of ways to report concerns about content and contact. Chromebook RESEARCH (DT/Science/Topic/English) DOC Anglo-Saxon Day/Viking Day recount.

Topic: Mayan Civilization **Tools:** Espresso and Scratch
Key Themes: Coding—write and debug programs that accomplish specific goals including controlling or simulating physical systems; use sequence, selection and repetition in programs, work out variables and various forms of input and output.

Topic: Water **Tools:** Chromebooks
Key Themes: Creation of a set of slides to explain the water cycle. More advanced pupils to add links to songs and technical explanations. Doc creation of (i) Different elements of erosion and what is found at the coast and (ii) Doc demonstrating Coastal fieldwork to observe erosion

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Year 5/6 (Cycle B)

Topic: Technical World Tools: Chromebooks Key Themes: On-line safety PLAY LIKE SHARE (Think U Know Workbook L2) Use technology safely, respectfully and responsibly: recognise acceptable/ unacceptable behaviour; identify a range of ways to report concerns about content and contact. Chromebook RESEARCH (DT/Science/Topic/English) DOC /Slides Changes in Leisure and Entertainment in the 20th century

Topic: The Natural World Tools: Chromebooks
Key Themes : Slides/Docs Use technology safely, respectfully and responsibly: recognise acceptable/ unacceptable behaviour. Use search technologies effectively, appreciate how results are selected and ranked and be discerning in evaluation digital content. RESEARCH Biomes/Vegetation Belts Climate Zones and Comparison of 3 places

Tools: Espresso and Scratch
Key Themes: Coding—write and debug programs that accomplish specific goals including controlling or simulating physical systems; use sequence, selection and repetition in programs, work out variables and various forms of input and output.

Topic: The Olympics and Ancient Greece Tools: Chromebooks Key Themes : Slides/Docs Use technology safely, respectfully and responsibly: recognise acceptable/unacceptable behaviour. Use search technologies effectively, appreciate how results are selected and ranked and be discerning in evaluation digital content. RESEARCH Ancient Greece and the Olympics

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Key subject specific vocabulary (Tier 3 vocab) embedded and revisited during Computing:

algorithm, sequence, input, output, debug, data, store, organise, logic, manipulate, retrieve, digital, repetition, variables, networks, blog, forum, control, software, hardware, simulation, search, worldwide web, database.

We believe these skills are important for life because:

- We want children to have confidence and flexibility to use existing and future digital technologies successfully . (IT)

- We want children to develop a logical approach to creating content and problem solving that can be applied to real life situations (CS)

- We want children to embrace new technologies but to also have a keen appreciation of e-safety, data security and the impact of their digital footprint so that they can use digital devices in a responsible manner now and in their futures. (DL) *(*also reinforced in Keeping Safe in Modern World lessons)*