

Computing Subject Overview – Long Term Plan

Subject Leader: Mr Maguire

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Autumn 1	Digital Literacy / E-Safety – Smartie the penguin	Digital Literacy / E-Safety – Online Safety Year 2 Unit	Digital Literacy / E-Safety – Online Safety Year 3 Unit	Programming – Scratch (create a quiz)	Programming – Scratch (maze games)	Programming – Scratch (ping pong games)
Autumn 2	Digital Literacy – Technology all around us	Programming – Scratch Jr	Programming – Scratch (Sequencing Sounds)	Digital Literacy / E-Safety – Online Safety Year 4 Unit	Digital Literacy / E-Safety – Online Safety Year 5 Unit	Digital literacy / E-Safety - Be Internet Legends UKS2
Spring 1	Digital Literacy / E-Safety – Online Safety Year 1 Unit	Information Technology – Presentation skills (Microsoft PowerPoint)	Digital Literacy - Computing systems and networks – Connecting computers	Information Technology – Processing skills (Microsoft Word)	Information Technology – Presentation skills (Microsoft PowerPoint)	Information Technology – Spreadsheets (Microsoft Excel)
Spring 2	Information Technology – Basic computing skills	Digital literacy / E-Safety - KS1 E-Safety Mini Topic	Information Technology – Processing skills (Microsoft Word)	Programming – Scratch (Repetition In Games)	Digital Literacy Computing systems and networks – The Internet	Digital Literacy Computing systems and networks - Systems and searching
Summer 1	Programming – Beebots	Programming -Preparing for Turtle Logo / Scratch	Digital literacy / E-Safety - Online searchers & surfers	Information Technology – Podcasts (Audacity)	Programming – Micro:bit devices	Information Technology – Desktop Publishing (Microsoft Publisher)
Summer 2	Information Technology – Processing skills (Microsoft Word)	Programming - Turtle Logo / Scratch	Programming – Scratch (Events & Actions)	Digital literacy / E-Safety - Be Internet Legends LKS2	Digital literacy / E-Safety – Upper KS2 E-Safety Mini Topic	Digital Literacy / E-Safety – Online Safety Year 6 Unit

Year 7 (St Margaret Ward)

Autumn

Autumn 1 – Introduction to ICT

- E-Safety
- Health & Safety
- Accessing the network
- Microsoft Word
- Introduction to networks – students to look at the hardware / software components that make up a network.

Autumn 2

- Microsoft Publisher
- Computers and the law – computer misuse act, copyright, designs and patents act, data protection act.

Spring

Spring 1

- Creating and designing a spreadsheet (Excel)
- Data representation – students will look at how the computer stores information (logic gates, truth table, logic circuits, binary numbers, converting between binary / decimal)

Spring 2 – People in technology

- Introduction to PowerPoint
- Internet research of pioneers in technology (Nancy Roman, Mae Jemison, Mark Zuckerberg, Tim Berners-Lee)

Summer

Summer 1

- Algorithms and sorting – students will look at the basic fundamentals of computational thinking including algorithms, representing algorithms, linear / binary search, bubble / insertion sort

Summer 2

- Living in a digital world – students will be able to define and apply their knowledge to a variety of situations (communication, on the move, entertain me, smart working, online shopping)