Computing Subject Overview – Long Term Plan

Subject Leader: Mr Maguire

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Autumn 1	Programming - Beebots	Programming – Beebot iPad app / Lego Fix The Factory iPad app	Information Technology – Microsoft Word processing	Programming – Scratch (create a quiz)	Programming – Scratch (maze games)	Programming – Scratch (ping pong games)
Autumn 2	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 – A.L.E.X iPad app	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 – Microsoft PowerPoint	Programming - Scratch	Digital Literacy / E-Safety – Online Safety Year 4 Unit	Information Technology – Microsoft PowerPoint	Information Technology – Microsoft Excel
Spring 2	Digital Literacy – How we use technology	Digital literacy / E-Safety - KS1 E-Safety Mini Topic	Digital literacy / E-Safety - Internet Research & Communication	Information Technology – Microsoft Word processing	Digital Literacy Computing systems and networks – The Internet	Digital Literacy Computing systems and networks - Systems and searching
Summer 1	Information Technology – basic computer skills	Programming -Preparing for Turtle Logo / Scratch	Digital Literacy - Computing systems and networks – Connecting computers	Information Technology – Audacity	Programming – Micro:bit devices	Information Technology – Microsoft Publisher
Summer 2	Information Technology – Microsoft Word processing	Programming - Turtle Logo / Scratch	Programming - Turtle Logo / Scratch	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)