



<u>E-Safety</u>

E-safety underpins everything we do and will be a continued focus throughout the year as well as being taught discreetly as detailed below. E--safety links will be made through other subjects and topic work and children will be taught how to develop strategies to keep themselves safe when using technology. Age appropriate resources such as Sid's Top Tips, SMART rules, Think U Know and Ceop's Conduct, Content, Contact advice will be used to develop these strategies. Children will learn how to keep personal information private and where to go for help and support if they are worried.

Online Communication

Opportunities should also be sought to communicate and collaborate using school approved, age appropriate online technologies (email, video conferencing, blogs, forums and safe social networking sites).

Year 1	Programming Floor and on-screen robots Explore Digital Devices including sound recorders Explore Simulations 	 E-safety Understanding e-safety rules Safer Internet Day 	Data • Explore dataloggers • Pictograms • Simple graphs	Multimedia Multimedia Keyboard skills Simple presentations Create pictures using a paint package	Networks & Internet/ E-safety • Use simple navigation buttons • Simple searches • Talk about websites
Year 2	Multimedia (Text & Programming Graphics) Floor and on-screen robots • Keyboard skills • Exploring Digital Devices • Use software (e.g. 2Create a story, 2Publish+, Word) to create publications and presentations using different text and image styles. • Exploring Simulations • Use a paint package to communicate ideas • Col	 Multimedia/ E-safety Safer Internet Day (Term 3) Explore electronic music and sound devices Use software such as Compose World Create & 2Compose to explore, record and change sounds and music 		Networks & Internet/ E- safety/ Multimedia Discuss simple blogs and websites E-safety rules Develop keyboard skills	Multimedia (digital Photography)/ Networks



Computing – overview of topics to be taught 2017/18



4				1		<u> </u>
	Networks &	& Internet/	Data/ E–safety	Programming	Multimedia	Programming (Simulations)
Year 3	Networks & Internet/ E-safety/ Multimedia Develop keyboard & typing skills Discuss different computer networks Open, create and send emails Explore safe social networking sites (e.g. Makewaves)		 Data/ E-safety Safer Internet Day (Term 3) Use a datalogger to collect data Create databases to answer simple auestions 	 Programming Explore how computer games have been created using programming language Use computer algorithms to control floor (Lego) and on- screen Robots (links to D.T) 	 Multimedia Develop research skills using search engines Use ICT to record voice and sounds Use a range of software (e.g. Power Point, Publisher) to present information 	 Explore the effects of changing variables using on-screen simulations (science simulation to light up a bulb)
Year 4	Networks & the Internet/E-safety/ Multimedia • On-line research & navigation/E-safety rules • Typing skills - shortcut keys	 Multimedia Import and edit digital images using graphical modelling Edit pictures using photo manipulation software. Use a graphical modelling program to create a piece of artwork (2Draw) 	 E-safety/Programming Safer Internet day - (Conduct, Content, Contact) Write algorithms to control a program Write and debug programs using Scratch 	Multimedia (Graphical Modelling) • Use a graphical modelling program to create an aerial view (Publisher)	Networks & the Internet/ Multimedia Develop online research & evaluation skills Use a range of tools to design and create a multimedia presentation (e.g. Movie Maker) Collaborate and communicate online (e.g. Makewaves, Flashmeeting)	 Data/Programming Collect, organise and interpret data using dataloggers and databases Create databases to classify data and answer auestions (Branching databases, 2Investigate) Create a simple animation using Pivotstick/2Animate



Computing - overview of topics to be taught 2017/18



Year 5	Networks & the Internet/E-safety/ Programming (Data) Explore computer networks including the internet/ Personal online safety Extend typing and keyboard skills Write programs to control & simulate events (Lego Mindstorms	 Programming Create a sequence of instructions to control multiple outputs using Lego NXT (links to D.T) Detect and correct errors in programs 	Networks & the Internet/E-safety/ Multimedia Safer Internet Day (Conduct, Content, Contact) Use graphical modelling software to design and develop a plan Use a variety of mul		 Data/ Multimedia Use simple • formulae in spreadsheets (Excel) to solve problems Complex searches on databases to answer questions 	Multimedia Plan and create an animated sequence using Pivotstick/ 2Animate
Year 6	datalogging) Multimedia • Produce interactive multimedia presentations using PowerPoint	 SAFE (Makewaves) Evaluate digital content Consider plausibility and appropriateness of online information Develop understanding of how computer networks work including the internet 	 Data Develop spreadsheet skills using advanced formulae (Excel) Change data and formulae in spreadsheets to answer 'what if? auestions and check predictions 	Networks and the Internet (PC Basics) • Learn about input and output devices • Learn how a computer, wireless Internet • To learn to decode binary numbers	 Programming Create 3D worlds and models using Kodu Solve open ended problems using Kodu and other programming languages 	Programming Create 3D worlds and models using Kodu Solve open ended problems using Kodu and other programming languages