Aldermaston CE Primary School – Computing Curriculum

		Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1
Years 1 & 2	Year A	 Online safety Logging in with a username and password, password safety Effective searching What is a search engine? Using search engines 	 Lego builders What happens when instructions aren't clear? Ordering instructions correctly Spreadsheets Appearance of spreadsheets Entering data into spreadsheet cells 	Creating pictures - Digital art - Exploring impressionism, pointillism and surrealism	 Pictograms Understanding that data can be represented in picture format Contributing to class pictogram Creating pictograms to record data 	Technology outside school- What is technology?- How can it make life easiGrouping and sorting- Sorting items using a ran criteria, e.g. size, colour, material
	Year B	 Online safety Logging in with a username and password, password safety Maze explorers To use direction keys To create and debug a simple algorithm (set of instructions) 	Spreadsheets - Copying and pasting from cells - Making a graph - Planning your shopping Making music - Creating digital music sequences - Changing tempo and volume	 Animated story books Adding animation to a story Using sound including voice recordings and music Online safety Sharing information safely Keeping personal data and hardware secure. 	 Questioning Use of pictograms Constructing a binary tree and using yes/no questions Searching for information 	 Coding Following instructions Backgrounds, objects and actions Making a computer prog
Years 3 & 4	Year A	 Online safety Is everything we read online true? Age restrictions Coding Using flowcharts The repeat command in computer programming Setting timings 	 Spreadsheets Locating cells Collecting data and comparing values Touch typing Using specific fingers for specific keys Healthy posture 	E-mail - Using e-mail safely - Using address books - Sending attachments	 Branching databases What is a branching database? Questions used to classify groups of objects Creating a branching database 	 Simulations What is a computer simulation? Uses of simulations Analysing and evaluating simulations
	Year B	Online safety - Digital footprints - Recognising SPAM - Avoiding plagiarism Coding - The coding process – design, code, test and debug - Variables, if/else statements	 Spreadsheets Using a spreadsheet to model a real life situation Formatting cells Adding a formula to a cell to automatically complete a calculation 	 Writing for different audiences Exploring how font size and style can affect the impact of a text. Writing for different purposes, e.g. news reports or community campaigns 	 Learning the coding language of Logo To input simple instructions in Logo and build procedures in Logo 	Animation - What makes effective animation? - Onion skinning - Using 'stop motion' anim
Years 5 & 6	Year A	Online Safety - SMART rules - Sharing images and reliability of information sources Coding - - Simulating a physical system - Timer countdowns, scorepads - Decomposition and abstraction	 Spreadsheets Using formulas to calculate products and complete conversions Spreadsheets for budgeting 	 Databases What is a database Creating and searching databases Collaborating on a database 	 Game Creator Designing a playing area Balancing challenge and enjoyment Evaluation and improvement 	 3D Modelling Learn about computer ai design Designing using 2D, 3D at images To create a model to mat specific criteria
	Year B	 Online Safety How long does information stay online? Phishing and spoof websites Use of mobile devices Coding Using functions in coding Creating simulations Allowing user input 	 Spreadsheets Using formula for column totals Computational models Using spreadsheets to plan expenditure 	 Blogging What is a blog? Selecting blog content for different purposes Blog posts and commenting on blogs 	 Text Adventures Features of text based adventures Planning text based options and linked outcomes Creating functions in a program 	 Networks The difference between the internet and the world wweb LANs and WANs The work of Tim Berners

	Summer 2
isier? inge of r,	 Presenting ideas Planning a presentation Concept mapping Understanding your audience
nd ogram	 Coding Using algorithms Understanding that different objects have different properties Understanding and debugging simple programs
ng	 Graphing Types of graphs and diagrams used to represent data Using axes Interpreting graphs
mation	 Effective Searching Making effective searches Locating reliable information Hardware Investigators What are the different parts that make up a computer? Recalling the different parts of a computer Concept Maps Uses of concept maps How visual representations
and net atch	help us to understand complex ideas - Collaborating on concept maps
n the wide rs-Lee	 Understanding Binary What is binary? Writing binary numbers Binary and computer memory and programming