Swain House Primary School Computing - Long Term Plan (includes lesson plans that cover all the DfE statutory requirements for Computing) Based on TeachComputing.org Curriculum

Year group	Autumn 1 Computing Systems and Networks	Autumn 2 Creating Media	Spring 1 Programming A	Spring 2 Data and Information	Summer 1 Creating Media	Summer 2 Programming B
EYs						
Y1	Unit: Technology around us Recognising technology in school and using it responsibly.	Unit: Digital Painting Choosing appropriate tools in a program to create art, and making comparisons with working non-digitally.	Unit: Moving a robot Writing short algorithms and programs for floor robots, and predicting program outcomes	Unit: Grouping Data Exploring object labels, then using them to sort and group objects by properties.	Unit: Digital Writing Using a computer to create and format text, before comparing to writing non-digitally.	Unit: Introduction to animation Designing and programming the movement of a character on screen to tell stories.
Y2	Unit: Information Technology around us Identifying IT and how its responsible use improves our world in school and beyond.	Unit: Digital photography Capturing and changing digital photographs for different purposes.	Unit: Robot algorithms Creating and debugging programs, and using logical reasoning to make predictions.	Unit: Pictograms Collecting data in tally charts and using attributes to organise and present data on a computer.	Unit: Making music Using a computer as a tool to explore rhythms and melodies, before creating a musical composition.	Unit: Programming quizzes Designing algorithms and programs that use events to trigger sequences of code to make an interactive quiz.
Y3	Unit: Connecting Computers Identifying that digital devices have inputs, processes, and outputs, and how devices can be connected to make networks.	Unit: Stop-frame animation Capturing and editing digital still images to produce a stop- frame animation that tells a story.	Unit: Sequencing sounds Creating sequences in a block- based programming language to make music.	Unit: Branching databases Building and using branching databases to group objects using yes/no questions.	Unit: Desktop publishing Creating documents by modifying text, images, and page layouts for a specified purpose.	Unit: Events and actions in programs Writing algorithms and programs that use a range of events to trigger sequences of actions.
¥4	Unit: The Internet Recognising the internet as a network of networks including the WWW, and why we should evaluate online content.	Unit: Audio editing Capturing and editing audio to produce a podcast, ensuring that copyright is considered.	Unit: Repetition in shapes Using a text-based programming language to explore count-controlled loops when drawing shapes	Unit: Data logging Recognising how and why data is collected over time, before using data loggers to carry out an investigation.	Unit: Photo editing Manipulating digital images, and reflecting on the impact of changes and whether the required purpose is fulfilled.	Unit: Repetition in games Using a block-based programming language to explore count-controlled and infinite loops when creating a game.
Υ5	Unit: Sharing Information Identifying and exploring how information is shared between digital systems.	Unit: Video editing Planning, capturing, and editing video to produce a short film.	Unit: Selection in physical computing Exploring conditions and selection using a programmable microcontroller.	Unit: Flat-file databases Using a database to order data and create charts to answer questions.	Unit: Vector drawing Creating images in a drawing program by using layers and groups of objects.	Unit: Selection in quizzes Exploring selection in programming to design and code an interactive quiz.
Y6	Unit: Internet Communication Recognising how the WWW can be used to communicate and be searched to find information.	Unit: Webpage creation Designing and creating webpages, giving consideration to copyright, aesthetics, and navigation.	Unit: Variable in games Exploring variables when designing and coding a game.	Unit: Introduction to spreadsheets Answering questions by using spreadsheets to organise and calculate data.	Unit: 3D Modelling Planning, developing, and evaluating 3D computer models of physical objects.	Unit: Sensing Designing and coding a project that captures inputs from a physical device.