

Subject on a Page Overview for Computing

Cycle 1	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Robins	Creating images e.g. taking photos		Positional Language e.g. Bee Bot		Creating art work e.g. Just2easy paint on iPad	
Starlings	Computing systems and networks – Technology around us - Uses of information technology beyond school - E-safety	Creating Media – Digital Writing - Create and manipulate digital content - Word processing	Data & Information – Grouping Data - Identify and label - Group and count - Describe properties - Count and compare - Answer questions	Programming B – Programming Animation - Instructions in sequences - Create and debug simple programs	Creating Media: Digital Photography - Capturing, editing, and improving photos - Real or not-real?	Programming – B Introduction to Quizzes - Create and debug simple programs - Use logical reasoning to predict the behaviour of simple programs
Kingfishers	Programming A Sequencing sounds - Sequence commands - Design and create programmes - Implement an algorithm	Creating media – Desktop publishing - Use text and images to communicate messages - Evaluate how and why desktop publishing is used in the real world	Programming B Events and actions in programs - Explore relationships between events and actions - Creating and modifying code	Computing systems and networks – Connecting computers - Understand inputs, processes and outputs - Explain how a computer network can share information - Recognise the physical components of a network	Creating media – Stop-frame animation - Animation as a sequence of drawings or photographs - Plan and create an animation - Review and improve an animation	Data and information – Branching databases - Attributes - Physical and on-screen branching databases - Identification tools - Real world applications
Sandpipers	Programming A – Variables in games - Design, write and debug programs - Decomposition - Use sequence, selection, and repetition - Work with variables and different forms of input and output	Creating media – 3D Modelling - Select, use, and combine a variety of software (including internet services) on a range of digital devices - Design and create a range of programs, systems, and content	Computing systems and networks – Systems and searching - Understand computer networks, including the internet - Opportunities for communication and collaboration - E-Safety	Programming B – Sensing movement - Design, write, and debug programs that accomplish specific goals - Control or simulate physical systems - Solve problems using decomposition - Detect and correct errors in algorithms and programs	Creating media – Video production - Use search technologies effectively - Evaluate digital content - Select, use, and combine a variety of software (including internet services) on a range of digital devices	Creating media – Introduction to vector graphics - Identify that drawing tools can be used to produce different outcomes - Create a vector drawing by combining shapes - Use layering to create an image - Modify objects to create a new image

Cycle 2	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Robins	Creating images e.g. taking photos		Positional Language e.g. Bee Bot		Creating art work e.g. Just2easy paint on Ipad	
Starlings	Programming A – Moving Robots <ul style="list-style-type: none"> - Understand simple algorithms - Create and debug simple programs 	Computing Systems and Networks: IT Around Us <ul style="list-style-type: none"> - Use technology purposefully - Recognise common uses of IT beyond school - E-Safety 	Data & Information – Pictograms <ul style="list-style-type: none"> - Use technology purposefully to create and organise, digital content - Explore attributes - Present data 	Programming – A Robot Algorithms <ul style="list-style-type: none"> - Instructions in sequences - Design algorithms, test as programs and debug 	Creating Media: Digital Music <ul style="list-style-type: none"> - Using a computer to create music - Compare creating music digitally and non-digitally - Patterns 	Creating Media: Digital Painting <ul style="list-style-type: none"> - Understand a range of tools used for digital painting - Create digital paintings
Kingfishers	Computing systems and networks – The Internet <ul style="list-style-type: none"> - Connecting networks - Sharing information via websites - Ownership and online content - Consequences of unreliable content 	Creating media – Audio production <ul style="list-style-type: none"> - Recording sound - Editing audio - Planning and creating podcasts - Combining audio - Evaluating effectiveness 	Programming A – Repetition in shapes <ul style="list-style-type: none"> - Algorithms - Patterns and repeats - Count controlled loops - Decomposition - Debugging 	Data and information – Data logging <ul style="list-style-type: none"> - Data sets - Data loggers - Interpreting data - Drawing conclusions - Benefits of data loggers 	Creating media – Photo editing <ul style="list-style-type: none"> - Changing digital images - Recolouring - Cloning - Combining - Creating - Evaluating 	Programming B – Repetition in games <ul style="list-style-type: none"> - Count controlled loops in a different environment - Modifying loops - Designing an algorithm - Creating an algorithm
Sandpipers	Programming A – Selection in physical computing <ul style="list-style-type: none"> - Decomposition - Sequencing - Debugging - Write a program that includes count-controlled loops - Design and create a program that controls a physical computing project 	Creating media – Web page creation <ul style="list-style-type: none"> - Consider the ownership and use of images (copyright) - Use search technologies effectively - Plan and create a webpage - E-Safety, respect and responsibility 	Data and information – Introduction to Spreadsheets <ul style="list-style-type: none"> - Create and build a data set in a spreadsheet - Apply formulas to data - Use and present data for a purpose 	Programming B – Selection in quizzes <ul style="list-style-type: none"> - Explain how selection is used in computer programs - Design, write and debug programs that accomplish specific goals - Use sequence, selection, and repetition in programs 	Data and information – Flat-file databases <ul style="list-style-type: none"> - Use tools within a database to order and answer questions about data - Create graphs and charts from data to solve problems - Present data and information 	Computing systems and networks – Communication and collaboration <ul style="list-style-type: none"> - Explore how data is transferred over the internet - Explore the makeup and structure of data packets - Communicate and collaborate responsibly

'Internet safety' features heavily throughout all areas of the Computing curriculum, as well as being included in much PSHE learning throughout the school.