WHCS Computing Curriculum

KS1 Year 1 & 2	Cycle 1	Cycle 2
Autumn 1	Online Safety	Online Safety
	Computing systems and networks – technology around us	Computing systems and networks – Information technology around us
	Recognising technology in school and using it responsibly	Identifying IT and how its responsible use improves our world in school and beyond.
Autumn 2	Data and information: grouping data	Introduction to animation
	Exploring object labels, then using them to sort and group objects by properties.	Designing and programming the movement of a character on screen to tell stories.
Spring 1	Online Safety	Online Safety
	Creating media – digital painting	Creating Media – digital photography
	Choosing appropriate tools in a program to create art, and making comparisons with working non-digitally	Capturing and changing digital photographs for different purposes.
Spring 2	Creating media – digital writing	Creating Media – making music
	Using a computer to create and format text, before comparing to writing non-digitally.	Using a computer as a tool to explore rhythms and melodies, before creating a musical composition.
Summer 1	Programming Moving a robot	Data and information: pictograms
	Writing short algorithms and programs for floor robots, and predicting program outcomes	Collecting data in tally charts and using attributes to organise and present data on a computer.
Summer 2	Programming A – Robot algorithms	Programming B – An introduction to quizzes
	Creating and debugging programs, and using logical reasoning to make predictions.	Designing algorithms and programs that use events to trigger sequences of code to make an interactive quiz.

WHCS Computing Curriculum

LKS2 Year 3 & 4	2022-23	2023-24
Autumn 1	Online Safety	Online Safety
	Computing systems and networks – connecting computers	Computing systems and networks – The internet
	Identifying that digital devices have inputs, processes, and outputs, and how devices can be connected to make networks	Recognising the internet as a network of networks including the WWW, and why we should evaluate online content.
Autumn 2	Drawing & Desktop publishing	Data and information – data logging
	Creating documents by modifying text, images, and page layouts for a specified purpose.	Recognising how and why data is collected over time, before using data loggers to carry out an investigation.
Spring 1	Online Safety	Online Safety
	Creating media – audio editing	Photo Editing
	Capturing and editing audio to produce a podcast, ensuring that copyright is considered	Manipulating digital images, and reflecting on the impact of changes and whether the required purpose is fulfilled.
Spring 2	Sequence in music	Creating media - Animation
	Creating sequences in a block-based programming language to make music	Capturing and editing digital still images to produce a stop-frame animation that tells a story.
Summer 1	Events and actions	Repetition in shapes
	Writing algorithms and programs that use a range of events to trigger sequences of actions	Using a text-based programming language to explore count-controlled loops when drawing shapes.
Summer 2	Repetition in games	Branching databases
	Using a block-based programming language to explore count-controlled and infinite loops when creating a game.	Building and using branching databases to group objects using yes/no questions.

WHCS Computing Curriculum

UKS2 Year 5 & 6	2022-23	2023-24
Autumn 1	Online Safety	Online Safety
	Computing systems and networks – sharing information	Computing systems and networks – Communication
	Recognising IT systems around us and how they allow us to search the internet.	Identifying and exploring how data is transferred and information is shared online.
Autumn 2	Web page creation	Video editing
	Designing and creating web pages, giving consideration to copyright, aesthetics, and navigation	Planning, capturing, and editing video to produce a short film.
Spring 1	Online Safety	Online Safety
	<mark>Variables in games</mark> Exploring variables when designing and coding a game.	Data and information – flat files databases Using a database to order data and create charts to answer questions
Spring 2	3-D Modelling	Spreadsheets
	Planning, developing, and evaluating 3D computer models of physical objects.	Answering questions by using spreadsheets to organise and calculate data.
Summer 1	Selection in physical computing	Selection in quizzes
	Exploring conditions and selection using a programmable microcontroller	Exploring selection in programming to design and code an interactive quiz.
Summer 2	Programming B – sensing	Physical Computing
	Designing and coding a project that captures inputs from a physical device.	Exploring conditions and selection using a programmable microcontroller.