## **Computing Key Stage 3: The Birchwood Way**

## The Curriculum Journey

Year	HT1	HT2	НТ3	HT4	НТ5	НТ6
7	Digital Literacy: Using the IT system to succeed in school & Impact of Technology	LOGO	•	Modelling with	Programming Essentials in Scratch	KAST 2 & Summer Challenge: Applying your skills to solve computing problems
	successfully use the IT	Can I understand how to	Can I understand how a	Learning question: Can I understand how to use spreadsheets to model data?	Can I understand basic programming constructs?	Learning question: Can I understand how to apply computing skills to a new challenge?
	Networks, usernames, passwords, hazards, digital footprint, cyberbullying, presenting information the	Algorithms, simplifying	Networks, protocols, hardware, wired vs wireless, internet, World Wide Web	Data & Information, Spreadsheet layout, calculations, formulas,	Algorithms, programming	Key knowledge Decomposition Algorithms, Programming, sequence, selection iteration
Building and revisiting	technology safely, respectfully and	write and debug programs", "use Sequence	"understand computer networks including the	"collecting, analysing, evaluating and presenting data and information"	Programming using block-	Revisiting themes from across the year into a more complex project.
Assessment	reviews, Low Stakes Quizzes, End of Topic test	reviews, Low Stakes Quizzes, Over the shoulder verbal	reviews, Low Stakes Quizzes, KAST 1 - cumulative test	reviews, Low Stakes Quizzes, Over the shoulder verbal	shoulder verbal feedback, End	on the year, Over the
Year	HT1	HT2	HT3	HT4	HT5	HT6

	Computer Science: Algorithms and Flowcharts	Computer Science: Introduction to Programming	KAST 1 & Computer Science: Introduction to Programming RAP	Computer Science: Representing Data	Computer Science & Information Technology: Developing for the web	KAST 2 & Summer Challenge: Applying your skills to solve computing problems
	Learning question: Can I understand how to represent algorithms using flowcharts?	Learning question: Can I understand how to write programs in Python?		Learning question: Can I understand how data is represented in a computer?	Learning question: Can I understand how the World Wide Web works?	Learning question: Can I understand how to apply computing skills to a new challenge?
	Key knowledge: Inputs and Outputs, Basic Flowchart shapes, using selection/decisions, looping programs, using subroutines	Key knowledge: Algorithm, Syntax, Sequence, Selection, iteration	Algorithm, Syntax, Sequence, Selection, iteration	_	Key knowledge: Internet, WWW, HTML, CSS, Client, Server	Key knowledge Decomposition Algorithms, Programming, sequence, selection iteration
Building and revisiting	Revisits algorithms from Y7	Builds on programming topics from Y7	topics from Y7	Builds on networks knowledge from Y7 and builds on programming knowledge	New concepts	Revisits skills from across the year
	Recall 5, Learning Log reviews, Low Stakes Quizzes, Over the shoulder verbal feedback, End of Topic test	Recall 5, Learning Log reviews, Low Stakes Quizzes, Over the shoulder verbal feedback, End of Topic test	reviews, Low Stakes Quizzes, Over the shoulder verbal	Recall 5, Learning Log reviews, Low Stakes Quizzes, Over the shoulder verbal feedback, End of Topic test	Recall 5, Learning Log reviews, Low Stakes Quizzes, End of Topic test	KAST 2 cumulative test based on the year, Over the shoulder verbal feedback, Project Learning Logs RAP for KAST 2
Year	HT1	НТ2	НТ3	HT4	НТ5	НТ6
9	Information Technology/Digital Literacy:	Computer Science: Advanced Programming	KAST 1 & Computer Science: Advanced programming RAP		Information Technology: Creating Digital Graphics	KAST 2 & Summer Challenge: Applying your

	Using IT in Business & Media					skills to solve computing problems
	Can I understand how to plan and market a small business?	write complex programs in	Can I understand how to write complex programs in	Can I understand how to	Learning question: Can I understand how to create effective digital media?	Learning question: Can I understand how to apply computing skills to a new challenge?
	Competition and USPs,	Algorithm, Syntax, Sequence,	Trend analysis, Infographics,	Online threats, methods to	Key knowledge: Photo editing, digital graphic conventions, exporting	Key knowledge Decomposition Algorithms, Programming, sequence, selection iteration
Building and revisiting	0.	programming topics from Y8		Revisits some of the issues covered in PSHE	New Concepts	Revisits skills from across the year
	reviews, Low Stakes Quizzes,	reviews, Low Stakes Quizzes, End of Topic test	reviews, Low Stakes Quizzes,	reviews, Low Stakes Quizzes,	Recall 5, Learning Log reviews, Low Stakes Quizzes, End of Topic test	KAST 2 cumulative test based on the year, Project Learning Logs