

## Computing & Computer Science Thematic Curriculum Map Year A

Our thematic spiral curriculum enables learners to develop computer science, information technology and digital literacy links. Engaging topics have been selected which connect with the theme for each half-term. These themes provide an anchor for learners as they return to them each year, further supporting their development of computer science and IT links. Over the course of just six years at the school, the scientific and practical study of computation; what can be computed, how to compute it and how computation may be applied to the solution of problems. The ability to navigate, evaluate and create digital artefacts using a range of digital technologies and how computers and telecommunications equipment work and how they may be applied to the storage, retrieval, transmission, and manipulation of data effectively, responsibly, safely and critically. Mixed-age classes mean that the history maps have been designed with a Year A and a Year B to facilitate students staying in the same class for multiple years.

	<b>Autumn 1 Healthy Lives</b>	<b>Autumn 2 Angels &amp; Demons</b>	<b>Spring 1 Individuals &amp; their Societies</b>	<b>Spring 2 Power of Nature</b>	<b>Summer 1 Myths &amp; Legends</b>	<b>Summer 2 Mysteries &amp; Adventures</b>
<b>KS2</b>	Hardware	Creating media - Stop-frame animation	Programming A - Sequencing sounds	Data and information – Branching database	Creating media – Desktop publishing	Programming B - Events and actions in programs
<b>Lower KS3</b>	Hardware	Networks from semaphores to the Internet	Using media – Gaining support for a cause	Programming essentials in Scratch – part I	Programming essentials in Scratch – part II	Modelling data using spreadsheet
<b>Access GCSE KS3</b>	Hardware	Software	Memory and storage	Moral, legal, cultural, and environmental concerns	Computational logic	Algorithms
<b>Access GCSE KS4</b>	Hardware	Software	Memory and storage	Moral, legal, cultural, and environmental concerns	Computational logic	Algorithms

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