KS3 POS Objectives: Mapping

	Classmate Units													
	Matesbook	Activities Week	Quiz Quest	Art Gallery	Flying Saucer Game	Safari Park	Close Encounters	Shadow Puppets	Play 2 Learn	Star Makers	Mission Improbable	Earthquake	Computers 4 iDiots	eSolutions
Undertake creative projects that involve selecting, using, and combining multiple applications, preferably across a range of devices, to achieve challenging goals, including collecting and analysing data and meeting the needs of known users.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Create, re-use, revise and re-purpose digital artefacts for a given audience, with attention to trustworthiness, design and usability.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Design, use, and evaluate computational abstractions that model the state and behaviour of real world problems.		✓			✓	✓			✓		✓		✓	✓
Understand several key algorithms that reflect computational thinking [for example, ones for sorting and searching]; use logical reasoning to compare the utility of alternative algorithms for the same problem.			✓		✓	✓			✓		✓		✓	✓
Use two or more programming languages, at least one of which is textual, to solve a variety of computational problems; make appropriate use of data structures ; design and develop modular programs that use procedures or functions.				✓	✓		✓		✓				✓	✓
Understand simple Boolean logic and some of its uses in circuits and programming; understand how numbers can be represented in binary, and be able to carry out simple operations on binary numbers						✓	✓			✓			✓	
Understand the hardware and software components that make up computer systems, and how they communicate with one another and with other systems.	✓			✓								✓	✓	✓
Understand how instructions are stored and executed within a computer system; understand how data of various types (including text, sounds and pictures) can be represented and manipulated digitally, in the form of binary digits.	✓		✓				✓	✓				✓	✓	
Understand a range of ways to use technology safely, respectfully, responsibly and securely, including protecting their online identity and privacy; recognise inappropriate content, contact and conduct and know how to report concerns.	✓	✓					✓	✓	✓	✓	✓	✓		✓