George Stephenson High School Secondary Scheme of Work: Year 7

Unit	Lessons	Key Progression Indicators Knowledge, Understanding and Skills
Unit 1 - Online Safety	6	• 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.
Unit 2 - Under the hood of the computer and computational thinking	6	• Understand the hardware computer systems and how they communicate with one another. • Students can name the internal components of a computer and describe their function. • Understand the term 'Computational thinking' and that Computer Science is about problem solving. • Understand that problems can be decomposed into smaller parts. • Understand how complex problems can be decomposed into smaller parts.
Unit 3 - My LOL cat – Creating a virtual pet	7	• To become familiar with building simple algorithms, making use of the three core-programming concepts; sequence, selection, and iteration. • To developing their problem solving and mathematical skills. • Understanding and making use of data structures (lists).
Unit 4 - Networks	5	• Understand what the internet is and how computers are connected together. • Understand how the www works. • Understand how data travels around the internet.
Unit 5 - Spreadsheet Modelling	6	• To be able to interrogate data. • Understand the term 'Modelling' and that Excel is a piece of software we can use to model real life situations. • Create a simple model using formulae and make use of basic formatting features.
Unit 6 - Making Shapes with Python	4	• Introduction to Python a text-based language. • Understand how to use iteration using Python turtle to draw repeating patterns.

Computing Calendar

Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13
Unit 1 - Online Safety Self-assessment						Unit 2 - Under the hood of the computer and computational thinking KAT 1						

Week 14	Week 15	Week 16	Week 17	Week 18	Week 19	Week 20	Week 21	Week 22	Week 23	Week 24	Week 25	Week 26
		Unit 3 - My LOL cat – Creating a virtual pet KAT 2							Unit 4 – Networks Self-assessment			

Week 27	Week 28	Week 29	Week 30	Week 31	Week 32	Week 33	Week 34	Week 35	Week 36	Week 37	Week 38	Week 39
	Unit 5 - Spreadsheet Modelling Self-assessment						Unit 6 - Making Shapes with Python Self-assessment				End of year tests KAT 3	