YEAR 9 CURRICULUM SUMMARY

When?	Knowledge	Understanding	Unit Assessment
Autumn Term 1	Cybersecurity & Computer Legislation	Data vs Information Worksheet – Customer Data Why is Customer Data valuable to a company? Privacy Policies Research – "What data do social media companies collect about their users?" Consequences? Social Engineering Worksheet – What three pieces of advice would you give someone to stop them from becoming the victim of a phishing attack? Malware Research – Discuss each of the 6 categories of Malware – Virus, Worm, Ransomware, Trojan, Spyware & Adware Investigate the various threats that an organisation faces by having network and online presence. Prepare a slideshow summarising these threats and identify what organisations can do to minimise the risks from such threats	Homework tasks will be set each week which directly relate to the lessons. These can be found on the homework sheet. Pupils will sit an assessment at the end of the unit which will assess their knowledge, understanding and ability to evaluate the topics covered.
Autumn Term 2	Modelling Data using Spreadsheets – Advanced Features & Charts	Use a range of spreadsheet scenarios to demonstrate a range of skills in using spreadsheet software Investigate how values change automatically in a spreadsheet when cell values are altered	Homework tasks will be set each week which directly relate to the lessons. These can be found on the homework sheet.

		Devise complex formulas to solve mathematical problems quickly and efficiently in a software model Use wizards in spreadsheet software to create a range of charts Practise using the Chart Toolbar in Excel to create a range of effective charts	Pupils will sit an assessment at the end of the unit which will assess their knowledge, understanding and ability to evaluate the topics covered.
Spring Term 1	Programming with Python II – File Handling	Python Challenges – using a variety of both built-in and user-created procedures and functions	Homework tasks will be set each week which directly relate to the lessons. These can be found on the homework sheet. Pupils will sit an assessment at the end of the unit which will assess their knowledge, understanding and ability to evaluate the topics covered.
Spring Term 2	Computational Thinking II – Logical Reasoning & Boolean Logic	Work through a series of exercises applying decomposition to break down larger problems into a series of smaller problems, noting any assumptions made Work through a series of exercises applying abstraction to enable problems to be modelled using computational methods, noting any assumptions made Work through a series of exercises to develop algorithms – a series of steps outlining the solution to the problem using computational methods, noting any assumptions made	Homework tasks will be set each week which directly relate to the lessons. These can be found on the homework sheet. Pupils will sit an assessment at the end of the unit which will assess their knowledge, understanding and ability to evaluate the topics covered.

Summer Term 1	Programming with C++	C++ Challenges & compare with Python solutions from previously	Homework tasks will be set each week which directly relate to the lessons. These can be found on the homework sheet. Pupils will sit an assessment at the end of the unit which will assess their knowledge, understanding and ability to evaluate the topics covered.
Summer Term 1	Project Development	Analyse a series of project proposals to develop a scope for the problem and design a solution Using the designs developed previously, develop a coded solution for the problem using a range of programming techniques developed earlier Using the designs developed and coded previously, develop a test plan to ensure that the solution works and evaluate the solution in a WWW EBI format	Homework tasks will be set each week which directly relate to the lessons. These can be found on the homework sheet. Pupils will sit an assessment at the end of the unit which will assess their knowledge, understanding and ability to evaluate the topics covered.