Year 9 Pathway G COMPUTER SCIENCE		
Hardware, memory & storage	Forms of attack	Boolean logic & truth tables
You will be able to:	You will be able to:	You will be able to:
Justify the use of a range of input/output devices for different environments.	Evaluate what attackers could do or access from eavesdropping on the school network.	Explain why different logic gates are needed in a computer system.
Summarise the functions of the Central Processing Unit.	Discuss why an attacker may want to use Identify Spoofing (IP Address Spoofing) on a network.	Evaluate what inputs are required to be for the output of an AND gate to be on.
Compare and contrast the usage of different secondary storage mediums for specific roles.	Explain what would happen to a network during a 'Denial of Service' attack.	Evaluate what inputs are required to be for the output of an OR gate to be on.
Discuss differences between RAM and ROM within a Computer System.	Compare and contrast the effectiveness of Man-in-the-Middle attacks and Phishing Scams.	Compare and contrast the purpose of the NAND and NOR gates.
Explain the balance between Virtual Memory and RAM in the speed of a computer.	Discuss what punishments are available for attacks under the Computer Misuse Act.	Create accurate truth tables from multiple logic diagrams.

Python programming 3D Design: Project Wordsley You will be able to: You will be able to: Justify the use of programming techniques within a section of code. Evaluate the global impact of e-waste. Identify required programming concepts from a given scenario. Evaluate the effectiveness of the sustainability features of your design and how they would contribute to a sustainable future. Create a program that incorporates nested programming concepts. Evaluate how sustainable your design is by considering a range of environmental factors, including its carbon footprint. Create a program that meets a given brief efficiently, using a variety of iteration techniques. Create a complex 3D model which successfully incorporates a range of tools. Evaluate how successfully a program meets a given brief. Analyse the completeness in relation to your original design aims.

	Year 9 Pathway R COMPUTER SCIENCE		
Hardware, memory & storage		Forms of attack	Boolean logic & truth tables
	You will be able to:	You will be able to:	You will be able to:
	Explain the use of a range of input/output devices for different environments.	Discuss what attackers could access from eavesdropping on the school network.	Explain the purpose of a logic gate in a computer system.
	Explain the functions of the Central Processing Unit.	Explain why an attacker may want to use IP Address Spoofing on a network.	Explain what inputs will make the output on in the AND gate.
	Discuss how different secondary storage mediums are used for specific roles. Explain how RAM and ROM are used within a Computer	Describe what would happen as a result of a 'Denial of Service' attack.	Explain what inputs will make the output on in the OR gate.
	System. Describe why Virtual Memory is required when RAM is	Explain how effective a 'Man-in-the-Middle attack would be on a network.	Explain the difference between the NAND gate and the NOR gate.

Explain what punishments the Computer Misuse Act could lead to.

Create truth tables from logic diagrams with two symbols.

Describe why Virtual Memory is required when RAM is full.

Python programming	3D Design: Project Wordsley
You will be able to:	You will be able to:
Explain how programming concepts are used within a section of code.	Discuss the negative impact that e-waste has on the environment
Describe how a given scenario could be tackled, sometimes offering programming concepts.	Describe how your design is sustainable, in terms of production, materials used and energy sources.
Create a program that uses nested IF statements.	Incorporate a range of environmental considerations into your design.
Create a program that meets a given brief with some demonstration of efficiency.	Create a 3D model which makes effective use of a range of tools.
Explain how successfully a program meets a given brief.	Discuss how successful your design is in meeting the original project brief.

Year 9 Pathway O	COMPUTER SCIENCE	
Hardware, memory & storage	Forms of attack	Boolean logic & truth tables
You will be able to:	You will be able to:	You will be able to:
Describe how input/output devices can be used in different environments. Describe the functions of the Central Processing Unit. Explain how 2 different storage mediums are used for specific roles. Categorise statements based on whether they are RAM or ROM within a Computer System. Describe what a computer would do it RAM became full.	Explain what an eavesdropping attack is. Explain what IP Address Spoofing is. Describe what would happen in a 'Denial of Service' attack. Describe what a 'Man-in-the-Middle' attack is. Explain the punishments that are outlined within the Computer Misuse Act.	Describe the need for logic gates to carry out calculations. Describe the role of the AND gate as requiring both inputs to be on. Describe the role of the OR gate as requiring both inputs to be on. Describe the effect the NOT gate has on an input. Complete truth tables from logic diagrams with two symbols.

Python programming	3D design: Project Wordsley
You will be able to:	You will be able to:
Identify the use of programming techniques within a section of code	Explain ways to reduce e-waste.
Describe how a given scenario could be tackled	Explain ways which a design could be sustainable.
Create a program that uses nested IF statements	Explain how your design would be environmentally friendly.
Create a program that meets a given brief	Create a 3D model which utilises simple shapes to create a larger design.
Explain the parts of a program that meet the needs of a given brief	Explain ways which your design could further meet the project brief.

Hardware, memory & storage	Forms of attack	Boolean logic & truth tables
You will be able to:	You will be able to:	You will be able to:
Identify a range of input/output devices that would be used within a specific environment. Define the functions of the Central Processing Unit. Describe how 2 different storage mediums are used for specific roles. Identify one feature of RAM and one feature of ROM within a Computer System. Identify the effect of full RAM on a computer system.	Describe what an eavesdropping attack is. Describe what an IP Address Spoofing attack is. Describe what would happen in a 'Denial of Service' attack. Identify features of a 'Man-in-the-Middle' attack. Identify the three offences outlined in the Computer Misuse Act.	Identify that logic gates carry out operations in a computer system. Identify the symbol for the AND gate. Identify the symbol for the OR gate. Identify the symbol for the NOT gate. Complete the outputs on a truth table for a logic diagram with two symbols.

Python programming	3D Design: Project Wordsley
You will be able to:	You will be able to:
Identify the use of selection techniques within a section of code.	Define the term e-waste.
Describe the steps that may be taken to tackle a given scenario.	Define the term sustainability.
Create a program that uses selection correctly.	Consider ways which your design could have a positive impact on the environment.
Create a program that meets a given brief.	Create a 3D model, which makes use of simple shapes.
Describe which parts of a given brief have been met by a program.	Identify good points and bad points about your final design.