

Key Stage 3 Long Term Planning

Year 7 SYLLABUS: Computer Science

Year 7 INTENT: The Year 7 Computer Science curriculum gradually introduces students to key concepts of Computing. Students begin by understanding how to stay safe online and look at the impact of cyber bullying, the importance of setting passwords, how to protect yourself online and the consequences of inappropriate online use. Students then go onto look at key aspects of Computational Thinking through abstraction, pattern recognition and decomposition. This allows students to understand what an algorithm is and how the fundamental programming concepts work. Students will use Scratch programming language where they will learn how to program animations and games using blocked code. During this term, students will also be introduced to variables and the different data types that are used in programming. The penultimate unit of work focuses on Data Manipulation, students will undertake creative projects that involve selecting, using, and combining multiple data types to achieve challenging goals, including collecting and analysing data and meeting the needs of known users. Finally, students will learn about the skills needed to become a graphic designer and learn how to use the basic skills to manipulate images, text and shapes based on a set scenario.

Curriculum Area: Art, Performance and Technologies Faculty

Year 7	Autumn Term 1	Autumn Term 2	Spring Term	Summer Term 1	Summer Term 2
Syllabus	E-Safety (Transition Unit)	Computational Thinking	Programming	Spreadsheets	Photoshop
Knowledge	Students will learn about the importance of staying safe online. This unit of work will include the impact of cyber bullying, the importance of setting passwords, how to protect yourself online and the consequences of inappropriate online use.	Students will be introduced to the key aspects of computational thinking which include Abstraction, Pattern Recognition and Decomposition. In addition to this, the pupils will understand what an algorithm is and how the fundamental programming concepts of sequencing, selection and iteration can be implemented.	Students will use Scratch programming language where they will learn how to program animations and games using blocked code. During this term, students will also be introduced to variables and the different data types that are used in programming. Micro: Bits may also be used dependent upon progress made.	Students will learn how to use spreadsheets using Microsoft Excel. They will be taught about the importance of using spreadsheets, how data can be stored and how to create formulas to manipulate data.	Students will be introduced to Adobe Photoshop and learn how to use basic tools to manipulate a graphic.
Skills	Students will learn many skills in this unit. As it will be the students first experience in a computing classroom at the school, they will learn how to use and navigate themselves around the computer and the internet. In addition to this, pupils will learn how to use the features of Microsoft Word and Microsoft PowerPoint to display their work and create their assessment piece.	Students will build on their digital literacy skills by using Microsoft office to complete work and assessments on. Students will also develop their problem solving and thinking skills and will allow them to understand how best to solve problems.	Students will learn many skills whilst programming including sequencing, selection and iteration. Programming using blocked code will help students when it comes to high-level language programming.	Students will be able to use a specialist spreadsheet software to create formulas and functions in order to calculate information.	Students will be able to use Adobe Photoshop in order to create a digital calendar. Students will also develop the ability to edit images and create their own leaflets and brochures. Extension tasks will be available to support students who wish to complete intermediate Adobe Photoshop tasks.
Connections to previous learning	Students will build on any prior knowledge that they have already learnt at primary school on internet safety. Most	Students will have used PowerPoint in Autumn Term 1 therefore will be building on the basic skills they already have in	This unit will build on any prior knowledge from primary school of design-based programming. Some schools use scratch and other	Students will have been using the Microsoft Office package throughout the year which makes Excel very intuitive to use. Some primary schools teach basics of	This topic will be new to many students, so students will be provided with guided worksheets to support their learning.

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	primary schools teach students basic internet safety as it is a legal requirement and underpins the curriculum requirements in both primary and secondary school. This unit will also embed the qualities of learning that students should have learnt about over the 6-week holidays when reading the 'Go Big' book.	this software. Additionally, some of our feeder primary schools teach students how to use Microsoft office products so will be able to recall key skills learnt in primary schools.	software including purple mash to introduce students into the coding world. This topic will also implement some of the fundamental programming techniques learnt in Autumn Term 2.	spreadsheets whether that be via purple mash or Microsoft excel so some students will be able to build on their knowledge.	
Assessment	<p><i>Point 1:</i> Students will complete regular formative assessments at the end of each lesson. This will be in the form of interactive quizzes, exit tickets and quick questioning. In line with PLC's.</p> <p><i>Point 2:</i> Students will be given an online assessment to complete and check their understanding of this topic.</p>	<p><i>Point 1:</i> Students will complete regular formative assessments at the end of each lesson. This will be in the form of interactive quizzes, exit tickets and quick questioning. In line with PLC's.</p> <p><i>Point 2:</i> Students will be assessed on an interactive presentation that they create which focuses on the topics they have learnt. This will also allow them to implement and combine sequencing, selection and iteration with their digital literacy skills.</p>	<p><i>Point 1:</i> Students will complete regular formative assessments at the end of each lesson. This will be in the form of interactive quizzes, exit tickets and quick questioning. In line with PLC's.</p> <p><i>Point 2:</i> Students will program a game/animation in scratch using sequencing, selection, iteration and variables.</p>	<p><i>Point 1:</i> Students will complete regular formative assessments at the end of each lesson. This will be in the form of interactive quizzes, exit tickets and quick questioning. In line with PLC's.</p> <p><i>Point 2:</i> Students will complete a written assessment that will test their understanding of the unit.</p>	<p>Students will create a digital graphic using Adobe Photoshop on their own using the skills they have learnt.</p> <p>Starter tasks will consist of students being required to define specific tools and functions on Adobe Photoshop.</p>
Homework	Homework will involve creative consolidation tasks and independent research tasks. Homework will be provided three times during this term.	Homework will involve creative consolidation tasks and independent research tasks. Homework will be provided three times during this term.	Homework will involve creative consolidation tasks and independent research tasks. Students will be given a scratch work booklet to work on as homework. Homework will be provided four times during this term.	Homework will involve creative consolidation tasks and independent research tasks. Homework will be provided three times during this term.	Homework will involve creative consolidation tasks and independent research tasks. Homework will be provided three times during this term.
Culture Capital	<p>Students will be invited to attend lunchtime/afterschool clubs which include a code club after school.</p> <p>An officer from Lancashire Cyber Security Center will be invited in to talk to students about the threats online.</p> <p>Matrix Challenge</p>	Students will be invited to attend lunchtime/afterschool clubs which include a code club after school.	<p>Students will be invited to attend lunchtime/afterschool clubs which include a code club after school.</p> <p>Experience using Micro: Bit/Raspberry Pi</p>	Students will be invited to attend lunchtime/afterschool clubs which include a code club after school.	Students will be invited to attend lunchtime/afterschool clubs which include a code club after school.
Numeracy			Numeracy skills will be focused on when dealing with variables, operators and data types.	Numeracy skills will be focused on when inserting data, writing formulas and performing calculations	
Literacy	Key words will be displayed and used throughout the lessons. Students will focus on their literacy skills when completing written work on the computers	Key words will be displayed and used throughout the lessons. Students will focus on their literacy skills when completing written work on the computers	Key words will be displayed and used throughout the lessons. Students will focus on their literacy skills when completing written work on the computers	Key words will be displayed and used throughout the lessons. Students will focus on their literacy skills when completing written work on the computers.	Key words will be displayed and used throughout the lessons. Students will focus on their literacy skills when completing written work on the computers.

				Students will be provided with a support sheets that outlines all the key tools and functions on Excel.	Students will be provided with support sheets that outlines all the key tools and functions on Adobe Photoshop.
CEIAG	A guest from the Lancashire National Cyber Security Unit will be invited in to discuss Cyber Crime and what their job entails.		Where can Computer Programming take you? Discussion on why programming is so important. Why are technology jobs the most in demand? Invite a Games designer in to talk to students.	Class discussions. What is the importance of spreadsheets? Why do almost all jobs require this skill? How do police and analysts use data?	Students will explore how small and medium sized tech and marketing businesses use Adobe Photoshop to support their clients.

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Year 8 INTENT: The Year 8 Computer Science curriculum aims to further embed and deepen the learning from Year 7, as well as develop new knowledge and technical skills. Students will apply some of the knowledge and skills to new advanced topics. Students begin with a topic about different cyber-attacks and how we can prevent these and will create an interactive user guide that will be used to educate users how to prevent threats. Students will go onto to learn about how computers communicate with each other through binary numbers and learn numerical skills to convert them to denary numbers and then back again. During the penultimate unit of the year, we look at a high-level-text-based programming language called Python. Students will understand how to write syntax language, how to use variables, selection, iteration and sequencing to construct basic programs. The final unit is the use of industry specific image editing software. Students will learn about the skills needed to become a graphic designer and learn how to use the basic skills to manipulate images, text and shapes based on a set scenario.

Year 8 SYLLABUS: Computer Science

Curriculum Area: Art, Performance and Technologies Faculty

Year 8	Autumn Term 1	Autumn Term 2	Spring Term	Summer Term
Syllabus	Cyber Security Threats / Interactive Presentation	Binary/Denary and Hexadecimals	Python Turtle	Photoshop
Knowledge	Students will learn about what different cyber-attacks are (phishing, malware, trojan horse and ransomware) along with how to prevent these threats. Students will create an interactive presentation that will be used to educate users how to prevent threats. They will learn skills such as transitions, animations and how to make a presentation interactive.	Students will learn about how data is represented on computers. Students will learn how to read binary numbers and convert them to denary (and vice-versa). Students will also learn how to perform binary calculations including addition and subtraction.	Students will be introduced to the high-level text-based programming language Python. Students will understand how to write syntax language and use data types, operators, variables, sequencing, selection and iteration to construct basic programs. Students will receive a work booklet and help sheets to support and scaffold their learning.	Students will be introduced to Adobe Photoshop and learn how to use the intermediate tools to manipulate a graphic.
Skills	Students will be able to explain how the threats work and how to prevent them. They will go on to learn skills such as transitions, animations and how to make a presentation interactive.	Students will be able to convert Denary to Binary and vice versa. In addition to this, students will perform calculations with binary numbers.	Students will acquire many skills in this unit. They will learn how to use and write programs in a high-level text-based programming language. Students will also learn key programming skills such as logic skills, algorithmic thinking skills and how to identify and rectify errors in code.	Students will learn the basic skills involved with graphic designing. Pupils will be able to use Adobe Photoshop in order to create a digital graphic. Students will also continue to improve their Digital Literacy skills by using Microsoft office and the internet.

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<p>Connections to previous learning</p>	<p>Students will have a basic understanding of e-safety and certain threats posted to individuals from the E-Safety/transitional unit completed in Year 7.</p>	<p>Students will know what binary is from learning how to program in Y7 and Y8.</p>	<p>Students will use the programming skills they learnt in year 7 and transfer them to this unit.</p>	<p>Students will build on any use of image editing software that they have used previously including Microsoft PowerPoint and everyday devices like image editing on their phones. Students would have also been introduced to Adobe Photoshop in Year 7, so they will use these skills to deepen their knowledge.</p>
<p>Assessment</p>	<p><i>Point 1:</i> Students will complete regular formative assessments at the end of each lesson. This will be in the form of interactive quizzes, exit tickets and quick questioning. In line with PLC's.</p> <p><i>Point 2:</i> Students will complete a Microsoft Forms on Cyber Security</p>	<p><i>Point 1:</i> Students will complete regular formative assessments at the end of each lesson. This will be in the form of interactive quizzes, exit tickets and quick questioning. In line with PLC's.</p> <p><i>Point 2:</i> Students will complete a Microsoft Forms on Binary/Denary Conversions</p>	<p><i>Point 1:</i> Students will complete regular formative assessments at the end of each lesson. This will be in the form of interactive quizzes, exit tickets and quick questioning. In line with PLC's.</p> <p><i>Point 2:</i> Students will complete a work booklet during this term which will include multiple tasks relating to the content taught. Progress will be measured based on this.</p> <p><i>Point 3:</i> A practical exam that will allow students to demonstrate what they have learnt.</p>	<p><i>Point 1:</i> Students will complete regular formative assessments at the end of each lesson. This will be in the form of interactive quizzes, exit tickets and quick questioning. In line with PLC's.</p> <p><i>Point 2:</i> Students will create a digital graphic using Adobe Photoshop on their own using the skills they have learnt. The final design will be created in line with a design brief.</p> <p><i>Point 3:</i> Students will undertake their end of year 8 assessment during this term which will reflect everything taught during this academic year.</p>
<p>Homework</p>	<p>Homework will involve creative consolidation tasks and independent research tasks. Homework will be provided as per the homework rotation.</p> <p>Homework 1 – Guided Reading Exercise, Students are provided with an article about Ransomware and a set of questions to answer.</p> <p>Homework 2 (Careers Focus) – Students are provided with a job profile of a Systems Pen Tester and Digital Forensic Analyst to research and complete</p> <p>Homework 3 – Diagnostic Questioning – Students will be provided with a 10 Question Microsoft Form to Complete</p> <p>Homework 4 (Key Words) – Students will be provided with 10 Key Terms used within this unit and they are required to provide detailed definitions to the words.</p>	<p>Homework will involve creative consolidation tasks and independent research tasks. Homework will be provided as per the homework rotation.</p> <p>Homework 1 – Guided Reading Exercise, Students are provided with an article about the Quantum Computer and a set of questions to answer.</p> <p>Homework 2 (Careers Focus) – Students are provided with a job profile of a Network Manager to research and complete</p> <p>Homework 3 – Diagnostic Questioning – Students will be provided with a 10 Question Microsoft Form to Complete</p> <p>Homework 4 (Conversions) – Students will be provided with a worksheet to complete based on binary</p>	<p>Homework will involve creative consolidation tasks and independent research tasks. Homework will be provided as per the homework rotation.</p> <p>Homework 1 – Guided Reading Exercise, Students are provided with an article about the Enigma Code and a set of questions to answer.</p> <p>Homework 2 (Careers Focus) – Students are provided with a job profile of a Computer Programmer to research and complete</p> <p>Homework 3 – Diagnostic Questioning – Students will be provided with a 10 Question Microsoft Form to Complete</p> <p>Homework 4 (Debugging) – Students will be provided with a worksheet to complete based on debugging errors present in code.</p> <p>Homework 5 and 6 (Programming Practice) – Students will be provided with 5 program challenges to complete digitally via Repl.it or Python Online.</p>	<p>Homework will involve creative consolidation tasks and independent research tasks. Homework will be provided as per the homework rotation.</p> <p>Homework 1 – Guided Reading Exercise, Students are provided with an article about the Gameboy and a set of questions to answer.</p> <p>Homework 2 (Careers Focus) – Students are provided with a job profile of a Graphic Designer to research and complete</p> <p>Homework 3 – Diagnostic Questioning – Students will be provided with a 10 Question Microsoft Form to Complete</p> <p>Homework 4 (Key Terms) – Students will be provided with 10 Key Terms used within this unit and they are required to provide detailed definitions to the words</p> <p>Homework 5 (Poor Image Editing) – Students will be provided with a worksheet with a poorly designed image and provide 5 advantages and 5 disadvantages of the graphic.</p> <p>Homework 6 (Photoshop Interface) – Students will be provided with a printout of the photoshop interface, they will be required to label the tools and explain how they work.</p>

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Culture Capital	<p>Students will be invited to attend lunchtime/afterschool clubs which include a code club after school.</p> <p>Cyber First Club will run through in preparation for the competition in Spring Term 1.</p>	<p>Students will be invited to attend lunchtime/afterschool clubs which include a code club after school.</p> <p>Cyber First Club will run through in preparation for the competition in Spring Term 1.</p>	<p>Students will be invited to attend lunchtime/afterschool clubs which include a code club after school.</p> <p>Cyber First Club will run through in preparation for the competition in Spring Term 1.</p> <p>Cyber First Day at Host (Depending on Arrangements)</p>	<p>Students will be invited to attend lunchtime/afterschool clubs which include a code club after school.</p>
Numeracy		<p>Students will be using binary and denary numbers throughout this topic to perform calculations.</p>	<p>Students will be using variables, data types and performing mathematical calculations throughout this topic.</p>	
Literacy	<p>Key words will be displayed and used throughout the lessons. Students will focus on their literacy skills when completing written work on the computers These will be highlighted on the PLC and on the presentation.</p> <p>Guided Reading activities will also take place during the topic as well during Do Now or the Activate section of the lesson.</p>	<p>Key words will be displayed and used throughout the lessons. Students will focus on their literacy skills when completing written work on the computers.</p> <p>Guided Reading activities will also take place during the topic as well during Do Now or the Activate section of the lesson.</p>	<p>Key words will be displayed and used throughout the lessons. Students will focus on their literacy skills when completing written work on the computers.</p> <p>Guided Reading activities will also take place during the topic as well during Do Now or the Activate section of the lesson.</p>	<p>Key words will be displayed and used throughout the lessons. Students will focus on their literacy skills when completing written work on the computers These will be highlighted on the PLC and on the presentation</p> <p>Guided Reading activities will also take place during the topic as well during Do Now or the Activate section of the lesson.</p>
CEIAG	<p>Cyber First Club will run through in preparation for the competition in Spring Term 1.</p>	<p>Cyber First Club will run through in preparation for the competition in Spring Term 1.</p>	<p>A guest from the Lancashire National Cyber Security Unit will be invited in to discuss Cyber Crime and what their job entails.</p>	<p>A graphic designer will be invited into school to speak to students about what a graphic designer does?</p>

Key Stage 3 Long Term Planning

Year 9 SYLLABUS: Computer Science

Year 9 INTENT: The Year 9 Computer Science curriculum aims to further embed and deepen the learning from Year 8, as well as develop new knowledge and technical skills to prepare the students to make a justified decision during the options process. The Year 9 curriculum is spread over six half terms. The first unit of work, students will learn how to improve system performance by learning about clock speeds, cores and caches. With this in mind, we look at system software, we focus on utility software to help students understand how to maintain and optimize the performance of a computer. We then move on to study about networking, where students are introduced to different types of networks, and look at different structures a network can follow. During the spring term, students will recap sequencing, selection, iteration and variables in preparation for the advanced unit of work. Students will then develop their use of this programming language further. Students will learn how to create lists, procedures, functions and will learn how to read and write to text files. Students will be able to combine all the programming constructs they have learnt in order to develop complex programs. Students will complete a Digital Graphics Project where they will develop image editing skills and learn about different file types and how best to save final products. The final unit of the year focuses on the future of technology and AI, students will be introduced into the world of Artificial intelligence and Machine Learning. Additionally, students will have a look at some of the emerging technologies and discover the impact that these will have on our world.

Curriculum Area: Art, Performance and Technologies Faculty

Year 9	Autumn Term 1	Autumn Term 2	Spring Term 1	Spring Term 2	Summer Term 1	Summer Term 2
Syllabus	Computers and Embedded Systems	Networking/Threats posed to a Network	Basic Python Programming	Advanced Python Programming	Digital Graphics Project (Based on R094 – Brand design)	Future of Technology and Artificial Intelligence
Knowledge	Students will learn how to improve system performance by learning about clock speed, cores and cache. The pupils will also understand the difference between primary and secondary storage and be able to explain what they are used for. We will also look at system software and in particular utility software that will help students understand how to maintain and optimize a computer.	Students will be introduced to computer networking. They will understand what LAN, WAN and PAN networks are and will look at the different network topologies including star topology and bus topology.	Students will learn key programming skills they learnt in Year 8, including sequencing, selection and iteration	Students will recap what they learnt in Python in Year 8 and then develop their use of this programming language further. Students will learn how to create lists, procedures, functions and will learn how to read and write to text files. Students will be able to combine all of the programming constructs they have learnt in order to develop complex programs.	During this unit students will develop their photoshop skills and understand how images must be resized, adapted and manipulated. Students will also learn about the different file types and how best to save final products. This will be important for all students going on to take Creative iMedia in Y10.	Students will be introduced into the world of Artificial intelligence and in particular Machine Learning. Additionally, students will have a look at some of the emerging technologies and discover the impact that these will have on our world.

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Skills	The students will learn key skills that will allow them to perform maintenance on their own devices and optimize the performance of their devices.	Students will learn how networks work and how we can connect devices to a network.	Students will learn key programming skills they learnt in Year 8, including sequencing, selection and iteration	Students will recap the key programming skills they learnt in Year 8, including sequencing, selection and iteration and then combine these skills with the new programming skills that they learn to create skilled and complex programs. Students will also learn key programming skills such as logic skills, algorithmic thinking skills and how to identify and rectify errors in code.	Students will develop their Photoshop skills that they will have learnt in year 7 and 8. Additionally, students will learn how to export and save final products to suitable file formats.	Students will learn some key theory skills necessary for understanding the simulation and modelling topic for GCSE Computer Science.
Connections to previous learning	. This is an important part of the curriculum that students must have learnt in preparation for their GCSE Options choices.	This is an important part of the curriculum that students must have learnt in preparation for their GCSE Options choices. Networks will have briefly been discussed in the Computer units during year 8 and year 9.	Students have already learnt the basics of python programming through Python Turtle so will use their prior knowledge to build on their programming ability.	Students have already learnt the basics of python programming in year 8 so will use their prior knowledge to build on their programming ability.	Students will have learnt how to use photoshop in year 8 so will continue building on this prior knowledge.	Although students may not have learnt about Artificial Intelligence directly, they will be well aware of the advancements of technology during their lifetime and have some understanding of what the future holds.
Assessment	<p>Point 1: Students will complete regular formative assessments at the end of each lesson. This will be in the form of interactive quizzes, exit tickets and quick questioning. In line with PLC's.</p> <p>Point 2: Students will complete a written/practical assessment that will test the content taught in this unit.</p>	<p>Point 1: Students will complete regular formative assessments at the end of each lesson. This will be in the form of interactive quizzes, exit tickets and quick questioning. In line with PLC's.</p> <p>Point 2: Students will complete a written assessment that will test the students understanding of computer networks.</p>	<p>Point 1: Students will complete regular formative assessments at the end of each lesson. This will be in the form of interactive quizzes, exit tickets and quick questioning. In line with PLC's.</p> <p>Point 2: Students will complete a work booklet over the course of this topic which will include theory based and practical programming tasks based on their lessons.</p> <p>Point 3: Students will complete a practical assessment where they will construct programs on python based on a given scenario.</p>	<p>Point 1: Students will complete regular formative assessments at the end of each lesson. This will be in the form of interactive quizzes, exit tickets and quick questioning. In line with PLC's.</p> <p>Point 2: Students will complete a work booklet over the course of this topic which will include theory based and practical programming tasks based on their lessons.</p> <p>Point 3: Students will complete a practical assessment where they will construct programs on python based on a given scenario.</p>	<p>Point 1: Students will complete regular formative assessments at the end of each lesson. This will be in the form of interactive quizzes, exit tickets and quick questioning. In line with PLC's.</p>	<p>Point 1: Students will complete regular formative assessments at the end of each lesson. This will be in the form of interactive quizzes, exit tickets and quick questioning. In line with PLC's.</p> <p>Point 2: Students will also undertake their end of year 9 assessment during this term which will reflect everything taught during this academic year.</p>

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<p>Homework</p>	<p>Students will receive regular homework in line with the faculty handbook. Homework will involve creative consolidation tasks and independent research tasks.</p> <p>Homework 1 – Guided Reading Exercise, Students are provided with an article about Windows Graphical User Interface and a set of questions to answer.</p> <p>Homework 2 (Careers Focus) – Students are provided with a job profile of a IT Technician to research and complete</p> <p>Homework 3 – Diagnostic Questioning – Students will be provided with a 10 Question Microsoft Form to Complete</p> <p>Homework 4 (Key Words) – Students will be provided with 10 Key Terms used within this unit and they are required to provide detailed definitions to the words.</p>	<p>Students will receive regular homework in line with the faculty handbook. Homework will involve creative consolidation tasks and independent research tasks.</p> <p>Homework 1 – Guided Reading Exercise, Students are provided with an article about Ransomware and a set of questions to answer.</p> <p>Homework 2 (Careers Focus) – Students are provided with a job profile of a Cyber Security Analyst to research and complete</p> <p>Homework 3 – Diagnostic Questioning – Students will be provided with a 10 Question Microsoft Form to Complete</p> <p>Homework 4 (Key Words) – Students will be provided with 10 Key Terms used within this unit and they are required to provide detailed definitions to the terms.</p>	<p>Students will receive regular homework in line with the faculty handbook. Homework will involve creative consolidation tasks and independent research tasks.</p> <p>Homework 1 – Guided Reading Exercise, Students are provided with an article about the Digital Divide and a set of questions to answer.</p> <p>Homework 2 (Careers Focus) – Students are provided with a job profile of a Web Designer to research and complete</p> <p>Homework 3 – Diagnostic Questioning – Students will be provided with a 10 Question Microsoft Form to Complete</p> <p>Homework 4 (Key Words) – Students will be provided with 10 Key Terms used within this unit and they are required to provide detailed definitions to the terms.</p>	<p>Students will receive regular homework in line with the faculty handbook. Homework will involve creative consolidation tasks and independent research tasks.</p> <p>Homework 1 – Guided Reading Exercise, Students are provided with an article about the Artemis and a set of questions to answer.</p> <p>Homework 2 (Careers Focus) – Students are provided with a job profile of a Game Programmer to research and complete</p> <p>Homework 3 – Diagnostic Questioning – Students will be provided with a 10 Question Microsoft Form to Complete</p> <p>Homework 4 (Key Words) – Students will be provided with 10 Key Terms used within this unit and they are required to provide detailed definitions to the terms.</p>	<p>Students will receive regular homework in line with the faculty handbook. Homework will involve creative consolidation tasks and independent research tasks.</p> <p>Homework 1 – Guided Reading Exercise, Students are provided with an article about COVID Track and Trace and a set of questions to answer.</p> <p>Homework 2 (Careers Focus) – Students are provided with a job profile of a Illustrator to research and complete</p> <p>Homework 3 – Diagnostic Questioning – Students will be provided with a 10 Question Microsoft Form to Complete</p> <p>Homework 4 (Key Words) – Students will be provided with 10 Key Terms used within this unit and they are required to provide detailed definitions to the terms.</p>	<p>Students will receive regular homework in line with the faculty handbook. Homework will involve creative consolidation tasks and independent research tasks.</p> <p>Homework 1 – Guided Reading Exercise, Students are provided with an article about Artificial Intelligence and a set of questions to answer.</p> <p>Homework 2 (Careers Focus) – Students are provided with a job profile of a Machine Learning Engineer o research and complete</p> <p>Homework 3 – Diagnostic Questioning – Students will be provided with a 10 Question Microsoft Form to Complete</p> <p>Homework 4 (Key Words) – Students will be provided with 10 Key Terms used within this unit and they are required to provide detailed definitions to the terms.</p>
<p>Culture Capital</p>	<p>Students will be invited to attend lunchtime/afterschool clubs which include a code club after school.</p> <p>Opportunity to perform real life maintenance on a computer.</p>	<p>Students will be invited to attend lunchtime/afterschool clubs which include a code club after school.</p> <p>ICT technician will be invited to discuss how the schools network works.</p>	<p>Students will be invited to attend lunchtime/afterschool clubs which include a code club after school.</p>	<p>Students will be invited to attend lunchtime/afterschool clubs which include a code club after school.</p> <p>A high-level games programmer will be invited in via stem in order to deliver a session to the students.</p>	<p>Students will be invited to attend lunchtime/afterschool clubs which include a code club after school.</p>	<p>Students will be invited to attend lunchtime/afterschool clubs which include a code club after school.</p> <p>Netflix Documentary – Coded Bias</p>

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Numeracy			Students will be using variables, data types and performing mathematical calculations throughout this topic.			
Literacy	<p>Key words will be displayed and used throughout the lessons. Students will focus on their literacy skills when completing written work on the computers These will be highlighted on the PLC and on the presentation.</p> <p>Guided Reading activities will also take place during the topic as well during Do Now or the Activate section of the lesson.</p>	<p>Key words will be displayed and used throughout the lessons. Students will focus on their literacy skills when completing written work on the computers These will be highlighted on the PLC and on the presentation.</p> <p>Guided Reading activities will also take place during the topic as well during Do Now or the Activate section of the lesson.</p>	<p>Key words will be displayed and used throughout the lessons. Students will focus on their literacy skills when completing written work on the computers These will be highlighted on the PLC and on the presentation.</p> <p>Guided Reading activities will also take place during the topic as well during Do Now or the Activate section of the lesson.</p>	<p>Key words will be displayed and used throughout the lessons. Students will focus on their literacy skills when completing written work on the computers These will be highlighted on the PLC and on the presentation.</p> <p>Guided Reading activities will also take place during the topic as well during Do Now or the Activate section of the lesson.</p>	<p>Key words will be displayed and used throughout the lessons. Students will focus on their literacy skills when completing written work on the computers These will be highlighted on the PLC and on the presentation.</p> <p>Guided Reading activities will also take place during the topic as well during Do Now or the Activate section of the lesson.</p>	<p>Key words will be displayed and used throughout the lessons. Students will focus on their literacy skills when completing written work on the computers These will be highlighted on the PLC and on the presentation.</p> <p>Guided Reading activities will also take place during the topic as well during Do Now or the Activate section of the lesson.</p>
CEIAG	Discussion with the school's ICT technician. Why is understanding computer architecture important and what jobs can you go into if you enjoy this? ICT Technician, Hardware engineer etc.		Invite a software engineer to discuss their job and how important programming is. Discussion with ICT technician.	A guest from the Lancashire National Cyber Security Unit will be invited in to discuss Cyber Crime and what their job entails.	Invite a Graphic Designer into school or virtually to discuss their job and how important illustration is.	