4	Autumn Term		Spring term		Summer term	
Year 7	1	2	3	4	5	6
Topic Summary	Digital literacy/ Computing Skills	Digital literacy/ Computing Skills	Scratch Programming 1	Introduction to Spreadsheets	Using Al	Scratch Programming 2
Thinking Hard	Knowing the correct icons for saving, undo, copy/paste, print, formating text. Keyboard short-cuts for basic manipulation of text.	Identify the key features of branding and marketing.	Use Scratch to make loops to repeat sections of code and variables to create sub-routines.	Write a variety of functions and formulas	Ask Copilot and/or Gemini detailed questions to get suitable responses.	Use Scratch to make loops to repeat sections of code and variables to create sub-routines.
Developing Character	Mindfulness and self-control: Online responsibility & staying secure online Grifoptimism: Collaborating online in lessons. Self control - Using the school LAN Self assurance: Presenting to an audience - can you adjust how you speak depending on who you are talking to?	Self assurance/awareness/optimism: Do you rely on the Internet? What would lockdown be like without the Internet? How can you use technology to make your life easier?	Mindfulness/grit - Developing stuckability, debugging your code.  Independence/SA/Creativity - creating your own program Helping others, paired programming Grit: How easily do you give up? Can you predict	Grit - writing your own formulas Self awareness/self assurance/curiosity: How could you use a spreadsheet in your life? Mastery: Why use a spreadsheet instead of a calculator?	Mindfulness & Grit: not fearing failure - developing resiliance when using AI.	Mindfulness/grit - Developing stuckability, debugging your code. Independence/SA/Creativity - creating your own program Helping others, paired programming Grit: How easily do you give up? Can you predict outcomes?
Understanding Diversity	Understanding environmental diversity/respecting human rights. Understanding mental and physical diversity/Optimism	Understanding environmental diversity/respecting human rights. Understanding mental and physical diversity/Optimism	Mastery: take an idea and create your own programme/game.	Self assurance/kindness: Different programming languages for different purposes, ages, experiences.	How do computers and humans work differently?	Mastery: take an idea and create your own programme/game.
Literacy Reading, Oracy	Computer literacy and fluency - logging on to school's network, using search engines, using Microsoft programmes.	Computer literacy and fluency - logging on to school's network, using search engines, using Microsoft programmes.	Key programming vocabulary	Literacy - keyword vocabulary pertaining to spreadsheet (functions, conditional formatting, data validation. use of spell check, find and replace)	Literacy - keyword vocabulary, The importance of spelling punctuation and grammar when using Al.	Sequential ordering of algorithms and programming - why is order important?
Gatsby, Careers	Understand how computers are used to aid working processes in various industries.	Identify the key features of branding and marketing as a career option.	Understand how programming is used in a variety of industries.	Understand the role of spreadsheets and data analysis in the workplace.	Understand how different careers using AI to support them in efficiency?	Understand how programming is used in a variety of industries.
Mental and Physical Well-being	Privacy and security I can explain how my internet use is often monitored (e.g. by my school or internet service provider) Mindful mountain	Screen breaks - physical well-being	Mindful mountain	How can spreadsheets reduce workload in other areas of life?	Mindfulness - how can Al support us?	Digital wellbeing and your Digital footprint - video
Cross-Curricular Links	PD (online safety & responsibility) Literacy- Comprehension, SPAG, Persuasive writing History- Hidden Figures National curriculum links - Understand the hardware and software components that make up computer systems, and how they communicate with one another and with other systems	Geography/Science: Environmental impacts/climate change.	Presenting and sharing ideas with one another (oracy)	Maths - surveys and collecting data	Using AI to find out Information about specific topics including climate change and influencers.	Presenting and sharing ideas with one another (oracy)
Extra-Curricular Links	Networks in your home.  Careers in computing	Environmental impacts/climate change.	Use computers for sequencing and inequalities (comparison)	Data representation	Photo manipulation	Use computers for sequencing and inequalities (comparison)
Specific Learning Endpoints	What we want students to learn/be able to:  1. Turning on computers, logging on, signing out.  2. Accessing Google Classroom, ClassCharts, Google Dirve, (including downloading to Morcosoft), user area.  3. Use Google as a browser/search engine to safely and felectively find information from recodile sources (internet safety).  3. Use Microsoft programmes to display information, format, edit, saws, screen clipping.  4. Use GMail to send/open emails, add attachments.	What we want students to learn/he able to:  1. What are brands and how does colour contrasting work as part of an advertising campaign?  2. Design, create and present a campaign for a environmental project using Microsoft software.	What we want students to learn/be able to:  1. Define a sequence and predict the outcome of a simple sequence 2. Modify a sequence 2. Modify a sequence 3. Define a variable as a name that refers to data being stored by the computer 4. Make a sequence that includes a variable 5. Define a condition as an expression that will be evaluated as either true or false 6. Identify where selection statements can be used in a program 7. Create conditions that use logic operators (and/or/not in a program that include comparison and logical operators 9. Describe the need for iteration	What we want students to learn/be able to:  1. Identify columns, rows, cells, and cell references in spreadsheet software 2. Use formatting techniques in a spreadsheet 3. Use basic formulae with cell references to perform cactualishors in a spreadsheet cell data 4. Use the autofill tool to replicate cell data 5. Cellect data 7. Analyse data 6. Cellect data 8. Create appropriate charts in a spreadsheet 9. Use the functions SUM, COUNTA, MAX, and MIN in a spreadsheet to Analyse data 10. Use a preadsheet to soft and filter data 11. Use the functions AVERAGE, COUNTIF, and IF in a spreadsheet	What we want students to learn/be able to:  1. Receive information based on specific enquiries  2. Use A to create formal letters/emails  3. Use A to generate recipes, journey plans, revision materials.  4. Use A to research social activities/events (e.g. holidays)	What we want students to learn/be able to:  1. Define a sequence and predict the outcome of a simple sequence 2. Modify a sequence 2. Modify a sequence 3. Define a variable as a name that refers to data being stored by the computer 4. Make a sequence that includes a variable 5. Define a condition as an expression that will be evaluated as either true or false 6. Identify where selection statements can be used in a program 7. Create conditions that use logic operators (and/or/not) 8. Identify where selection statements can be used in a program that include comparison and logical operators 9. Describe the need for iteration
Computing	Autumn Term		Spring term		Summer term	
Year 8	1	2	3	4	5	6
Topic Summary Thinking Hard	Digital literacy/ Computing Skills Knowing the correct icons for saving, undo, copy/paste, print, formating text. Keyboard short-cuts for basic manipulation of text. Understand the Internet of Everything.	Animation  Design characters to meet the requirements of a situation.  Understand colour theory in society	Representations - from clay to silicon  Convert between binary and decimal numbers.	Augmented Reality Understand the real-world uses and applications of AR in the workplace.	Vector Graphics  Know the differences between vector and Bitmaps.  Know that vector graphics are scalable.  Know that vector graphics are made of lines and curves.	Developing for the web Identifying how to format text suitably for given scenario. Make formatting more effiencit using CSS
Developing Character	Mindfulness and self-control: Online responsibility & staying secure online Gritoptimism: Codeborating online in lessons. Self control - Using the school LAN Self assurance. Presenting to an udence - can you adjust how you speak depending on who you are talking to?	Independence and creativity	Mastery/creating Independence: Moore's law: How much storage do you need? Can we keep expanding storage capacity and processing power? What are the consequences of this?	Independence and creativity	Mastery/creating independence: Independently problem solve to design and manipulate vector graphis.	Mindfulness/being a world citizen/awareness of where you live. Students consider the effects of our consumption of technology on the environment. Where does your eveste go? Who is responsible for ewaste? Respecting human rights/understanding democracy poor working conditions.
Understanding Diversity	Understanding environmental diversity/respecting human rights. Understanding mental and physical diversity/Optimism Computer literacy and fluency - locating on to school's	Self assurance/being a world citizen: Use of universal software language	Self assurance/being a world citizen: Ascil v Unicode the need for character sets that represent all languages	Self assurance/being a world citizen: Use of universal software	Self assurance/being a world citizen: Use of universal keywords for designing vector graphics	Being a world citizen/PD: Digital divide lack of internet in countries and poor connectivity curlosity/respecting human rights: Access to knowledge and public services Understanding environmental diversity: What happens when resources run out? Does tech create more problems than its solves?
Literacy Reading, Oracy	network, using search engines, using Microsoft programmes.	Sequencing and planning - using subject specific terminology. Story-telling.	Oracy - explain the need for Unicode	Narative, story-telling and sequencing of ideas.	Literacy and keywords for learning vector graphics	Literacy - Building blocks for the work wide web. Kaywords and terminology
Gatsby, Careers	Understand how technology is expanding and consider how the workplace needs to adapt for this.  Privacy and security	To know the variety of job roles within the annimation industry.	Understand the impact of networks in industries.	Have an awarenes of the uses of AR in the workplace, including simulation and testing/training.	Appreciate how visual elements are important to the promotion of any business.	Research website design companies. Could this be a career to aspire to?
Mental and Physical Well-being	by my school or internet service provider)  Mindful mountain	Engagement	Keeping up appearances - the selfie v yourself	Engagement with a new form of technology	Mindfulness - online design in silence	Mindfulness - Respect individuals and be responsible what is posted online via websites

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Cross-Curricular Links	PD (online safety & responsibility) Literacy- Comprehension, SPAG, Persuasive writing History- Hidden Figures National curriculum links - Understand the hardware and software components that make up computer systems, and how they communicate with one another and with other systems.	Art & Design: Use of visual elements, creative experimentation.  Design & Technology; Problem-solving, designing for a purpose.  English: Narrative writing, dialogue, and character development.	History - the development of character sets from ASCII to Unicode.  Art - the advancement of images in video games from 8 bit and up Maths - different number bases, place values, comparing with denary.  National curriculum links Understand how data of various types (including text, sounds and pictures) can be represented and manipulated digitally, in the form of binary digits		Art - 3D Design graphics and shapes Maths - shape and space. National curriculum links 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, reuse, revise, and repurpose digital artifacts for a given audience, with attention to trustworthiness, design, and usability	Maths - logical operators PD - the environment National curriculum links Create, reuse, revise, and repurpose digital artefacts for a given audience, with attention to trustworthiness, design, and usability.
Extra-Curricular Links	Networks in your home.  Careers in computing	Creating digital content and understanding how digital systems work.	Creating ambition/not fearing failure: The Turing Cryptology Competition Scatch - External after School club January - National Technology Day Feb - Safer Internet Day - R Time activities, all year groups."	AR - Extenernal after school club	Scratch - Extenernal after school club	Scratch - Extenernal after school club
Specific Learning Endpoints	What we want students to learn/be able to:  1. Turning on computers, logging on, signing out. 2. Accessing Google Classroom, ClassCharts, Google Drive, (including downloading to Mcroedf), user area. 3. Use Google as a browser/search engine to safely and 3. Use Microed programmes to display information, form credible sources (internet safety). 3. Use Microed programmes to display information, format, edit, save, screen clipping. 4. Use GMalt to send/open emails, add attachments 5. Create Information leaftet/PFT: Future of technology-what is happening now and what does our future look like?  https://www.youtube.com/watch?v=FTR./limN6jeU	What we want students to learn/be able to: 1. Understand the Principles of Animation 2. Shoylelling and Natfatice structure 3. Introduction of animation software 4. Visual design and creativity 5. Evaluation and refitection	What we want students to learn/be able to:  1. List examples of representations are used to store, communicate, and process information. 3. Provide examples of how different representations are appropriate for different teaks.  4. Recall that chiancates can be represented as appropriate for different teaks.  5. Describe how natural numbers are represented as executed to the process of binary digits.  6. Convert a decimal number to binary and vice versa.  7. Convert between different units and multiples of representation size.	What we want students to learn/be able to:  1. Understanding what AR is (including examples in everyday life, such as Pokemon Go, Snapchat filters and likea Place app)  2. Expiore AR tools and platforms  3. Creative Design and Visual Thinking  4. Digital content creation  5. Collaboration and Project Work  6. Evaluation and testing of projects	What we want students to learn/be able to:  1. Use loods to draw and modify shapes  2. Change the position and rotation shapes  3. Use loods to align and distribute objects to create uniformity  4. Explain how grouping can be used to work with several objects at once  5. Combine two shapes using union, intersection, and difference  6. Explain that wector graphics are made up of paths  7. Create and modify straight and curved paths  8. Choose a project and plan a design  9. Combine tools and techniques to create a vector image  10. Evaluate the project against its given purpose  11. Plan improvements and implement them to develop a roject  12. Explain key differences between vector and bitmap images  13. Evaluate their image against a rubric	What we want students to learn/be able to:  1. Describe what HTML is  2. Use HTML to structure static web pages  3. Modily HTML tags using inine styling to improve the appearance of web pages  4. Olspider impages within a web page  6. Use CSS to style static web pages  7. Describe what a search engine is  8. Explain how search engines 'crawf through the World Wide Web and how they select and rank results  9. Analyse how search engines select and rank results  10. Use search technologies effectively
Computer Science Year 9	Autumn Term		Spring term		Summer term	
Topic Summary	<u> </u>					
I ropic dullillary	Introduction to Spreadsheets	IT in the Digital World	Augmented Reality	Cybersecurity	Data Science	Spreadsheets - Advanced
Thinking Hard	Introduction to Spreadsheets  Write a variety of functions and formulas in real world situations. Using these skills independently to be able to prepare for NEA task in year 10.	IT in the Digital World  Apply knowledge and understanding of how technology is adapting in the world and the advantages/disadvantages of the software we can use.	Augmented Reality  Understand the reel-world uses and applications of AR in the workplace.	Acquiring knowledge / curiosity: This unit takes the	Data Science  Acquiring knowledge / curlosity: In this unit, learners will be introduced to data science, and by the end of the unit they will be empowered by knowing how to use data to investigate problems and make changes to the world around them.	Spreadsheets - Advanced Acquiring knowledge' Spreadsheet Formula, Design Tools - or Flow charts  Mindt loop Story board  Visualisation diagram Wierfarme Changing the world: What happens if the Internet goes down. Permanently. Not Flowing Blauer/creating independence/mastery:
Thinking Hard	Write a variety of functions and formulas in real world situations. Using these skills independently to be able to	Apply knowledge and understanding of how technology is adapting in the world and the advantages/disadvantages of	Understand the real-world uses and applications of AR in	Acquiring knowledge / curiosity: This unit takes the students on an eye-opening journey of discovery about techniques used by openerminals to steal data, disrupt systems, and infiltrate networks.  Self control/Being a world citizen: Computer Misuse Act and Fraud Act Mindfulness: Be a good digital citizen	Acquiring knowledge / curlosity: In this unit, learners will be introduced to data science, and by the end of the unit they will be empowered by knowing how to use data to investigate problems and make changes to the world around them.  Grit: Demonstrate determination by analysing complex data and drawing conclusions	Acquiring knowledge/ Spreadsheet Formula, Design Tools - p Flow charts  3 Mind maps  2 Story board  Visualisation diagram  Wirdrame  Changing the world: What happens if the Internet goes down. Permanently.
Thinking Hard	Write a variety of functions and formulas in real world situations. Using these skills independently to be able to prepare for NEA task in year 10.  Grit - writing your own formulas  Soff awareness/soff assurance/curiosity: How could you use a spreadsheet in your life?  Mastery: Why use a spreadsheet instead of a calculator?  Soff assurance/kindness: Different programming languages for different purposes, ages, experiences.	Apply knowledge and understanding of how technology is adapting in the world and the advantages/disadvantages of the software we can use.  Self-awareness of how our lives are impacted by the digital	Understand the real-world uses and applications of AR in the workplace.	Acquiring knowledge / curiosity: This unit takes the students on an eye-opening journey of discovery about techniques used by ophercriminals to steal data, disrupt systems, and infiltrate networks.  Self control/Being a world citizen: Computer Misuse Act and Fraud Act Mindfulness: Be a good digital citizen  Understanding democracy: Data protection act and the right to keep information secure? Consequences of breaking the law	Acquiring knowledge / curlosity: In this unit, learners will be introduced to data science, and by the end of the unit they will be empowered by knowing how to use data to investigate problems and make changes to the world around them.  Grit: Demonstrate determination by analysing complex data and drawing conclusions	Acquiring knowledge/ Spreadsheet Formula, Design Tools - of Flow charts  I Mind maps Story board Visualisation diagram Visualisation diagram Visualisation diagram Visualisation diagram Visualisation diagram Changing the world: What happens if the Internet goes down. Permanently. Not fearing failure/creating independence/mastery: developing Spreadsheets Certiself-assurance - developing VB code/formulae independently Cornicidering secondary storage - cost v capacity & performance. Protocols - what protocols are there in society? Visualisation of the company of the control of the company
Thinking Hard  Developing Character	Write a variety of functions and formulas in real world situations. Using these skills independently to be able to prepare for NEA task in year 10.  Grit - writing your own formulas  Self awareness/self assurance/curlosity: How could you use a spreadsheet in your life?  Mastery: Why use a spreadsheet instead of a calculator?  Self assurance/kindness: Different programming languages for different purposes, ages, experiences.  Literacy - keyword vocabulary pertaining to spreadsheet (functions, conditional formatting, data validation, use of spell check, find and replace)	Apply knowledge and understanding of how technology is adapting in the world and the advantages/disadvantages of the software we can use.  Self-awareness of how our lives are impacted by the digital world.  Self assurance/being a world citizen: Use of universal software  Analysing techniques	Understand the real-world uses and applications of AR in the workplace.  Independence and creativity  Self assurance/being a world citizen: Use of universal software  Narrative, story-telling and sequencing of ideas.	Acquiring knowledge / curiosity: This unit takes the students on an eye-opening journey of discovery about techniques used by cybercriminate to steal data, disrupt systems, and infiltrate networks.  Self control/Being a world citizen: Computer Misuse Act and Fraud Act Mindfulness: Be a good digital citizen  Understanding democracy: Data protection act and the right to keep information secure?  Consequences of breaking the law of the internet, the world world will be the reconstitution of the consequences of breaking the law sourch will be the world with the world world will be the	Acquiring knowledge / curiosity: In this unit, learners will be introduced to data science, and by the end of the unit they will be empowered by knowing how to use data to investigate problems and make changes to the world around them.  Grit: Demonstrate determination by analysing complex data and drawing conclusions  Understanding democracy: Freedom of information Act Being a world citizen: - Anaylse data and global trends that effect citizens such as the environment  Literacy - Comprehension and report writing	Acquiring knowledge Spreadsheet Formula, Design Tools - oFlow charts  a Mind maps Story board visualisation diagram visualisation diagram visualisation diagram visualisation diagram collection of the collection
Thinking Hard  Developing Character  Understanding Diversity	Write a variety of functions and formulas in real world situations. Using these skills independently to be able to prepare for NEA task in year 10.  Grit - writing your own formulas  Self awareness/self assurance/curiosity: How could you use a spreadsheet in your life?  Mastery: Why use a spreadsheet instead of a calculator?  Self assurance/kindness: Different programming languages for different purposes, ages, experiences.  Literacy - keyword vocabulary pertaining to spreadsheet (functions, conditional formatting, data validation, use of	Apply knowledge and understanding of how technology is adapting in the world and the advantages/disadvantages of the software we can use.  Self-awareness of how our lives are impacted by the digital world.  Self assurance/being a world citizen: Use of universal software  Analysing techniques  Recognising how different careers are impacted by the	Understand the real-world uses and applications of AR in the workplace.  Independence and creativity  Self assurance/being a world citizen: Use of universal software  Narrative, story-telling and sequencing of ideas.  Have an awarenes of the uses of AR in the workplace,	Acquiring knowledge / curiosity: This unit takes the students on an eye-opening journey of discovery about techniques used by ophercriminals to steal data, disrupt systems, and infiltrate networks.  Self control/Being a world citizen: Computer Misuse Act and Fraud Act Mindfulness: Be a good digital citizen  Understanding democracy: Data protection act and the right to keep information secure?  Consequences of breaking the law Being a world citizen/waveness of where you live: How to protect youself and your data on the internet. Manage security software (e.g. anti-virus, security patches, advane blockers) on my devices and understand why regular updates are important  Literacy - Comprehension and presentation skills  Understand how cyber security is one of the fastest	Acquiring knowledge / curiosity: In this unit, learners will be introduced to data science, and by the end of the unit they will be empowered by knowing how to use data to investigate problems and make changes to the world around them.  Grit: Demonstrate determination by analysing complex data and drawing conclusions  Understanding democracy: Freedom of information Act Being a world citizen: - Anaylse data and global trends that effect citizens such as the environment  Literacy - Comprehension and report writing  Recognise careers that will have analysts as job roles and	Acquiring knowledge/ Spreadsheet Formula, Design Tools - of Flow charts  a Mind maps  5 Story board  5 Visualisation diagram  5 Wireframe  Changing the world: What happens if the Internet goes down. Permanently.  Not fearing failure/creating independence/mastery: developing Spreadsheets  Gritself-assurance - developing VB code/formulae independently.  Considering secondary storage - cost v capacity & performance.  Frotocols - what protocols are there in society?  What new protocols appeared during loxidown?x  What new protocols appeared during loxidown?x  Curriosity: What's in a data packet?  Mindfulness: Can you imagine a world without computers?  How spreadsheets can be used in a variety of business situations.  Literacy - keyword vocabulary pertaining to spreadsheet (functions, conditional formatting, data validation, use of
Thinking Hard  Developing Character  Understanding Diversity  Literacy Reading, Oracy	Write a variety of functions and formulas in real world situations. Using these skills independently to be able to prepare for NEA task in year 10.  Grit - writing your own formulas  Soff awareness/soff assurance/curiosity: How could you use a spreadsheet in your life?  Mastery: Why use a spreadsheet instead of a calculator/situation of the state of the	Apply knowledge and understanding of how technology is adapting in the world and the advantages/disadvantages of the software we can use.  Self-awareness of how our lives are impacted by the digital world.  Self assurance/being a world citizen: Use of universal software  Analysing techniques	Understand the real-world uses and applications of AR in the workplace.  Independence and creativity  Self assurance/being a world citizen: Use of universal software  Narrative, story-telling and sequencing of ideas.	Acquiring knowledge / curiosity: This unit takes the students on an eye-opening journey of discovery about techniques used by cybercriminate to steal data, disrupt systems, and infiltrate networks.  Self control/Being a world citizen: Computer Misuse Act and Fraud Act Mindfulness: Be a good digital citizen  Understanding democracy: Data protection act and the right to keep information secure?  Consequences of breaking the law of the internet, the world world will be the reconstitution of the consequences of breaking the law sourch will be the world with the world world will be the	Acquiring knowledge / curiosity: In this unit, learners will be introduced to data science, and by the end of the unit they will be empowered by knowing how to use data to investigate problems and make changes to the world around them.  Grit: Demonstrate determination by analysing complex data and drawing conclusions  Understanding democracy: Freedom of information Act Being a world citizen: - Anaylse data and global trends that effect citizens such as the environment  Literacy - Comprehension and report writing	Acquiring knowledge (Spreadsheet Formula, Design Tools - of Plow charts   a Mind maps  5 Story board  v Isualisation diagram  Wherfarms  Changing the world: What happens if the Internet goes down. Permanently.  Not fearing fallure/creating independence/mastery: developing Spreadsheets  (Gritself-assurance - developing VB code/formulae independently)  Considering secondary storage - cost v capacity & performance.  Protocods - what protocols are there in society?  What new protocols appeared during lockdown?x  Which have we adopted?  Curlosity: What's in a data packet?  Mindfulness: Can you imagine a world without  computers?  How spreadsheets can be used in a variety of business  situations.  Literacy - keyword vocabulary pertaining to spreadsheet  (functions, conditional formatting, data validation, use of  spell check, find and replace)
Thinking Hard  Developing Character  Understanding Diversity  Literacy Reading, Oracy  Gatsby, Careers	Write a variety of functions and formulas in real world stituations. Using these skills independently to be able to prepare for NEA task in year 10.  Gritt - writing your own formulas  Self awareness/self assurance/curiosity: How could you use a spreadsheet in your life?  Mastery: Why use a spreadsheet instead of a calculator/a your self assurance/kindness: Different programming languages for different purposes, ages, experiences.  Literacy - keyword vocabulary pertaining to spreadsheet (functions, conditional formatting, data validation, use of spell check, find and replace)  How can spreadsheets reduce workload in other areas of lite?	Apply knowledge and understanding of how technology is adapting in the world and the advantages/disadvantages of the software we can use.  Self-awareness of how our lives are impacted by the digital world.  Self assurance/being a world citizen: Use of universal software  Analysing techniques  Recognising how different careers are impacted by the technology we use.	Understand the real-world uses and applications of AR in the workplace.  Independence and creativity  Self assurance/being a world citizen: Use of universal software  Narrative, story-telling and sequencing of ideas.  Have an awarenes of the uses of AR in the workplace, including simulation and testing/training.	Acquiring knowledge / curiosity: This unit takes the students on an eye-opening journey of discovery about techniques used by cybercriminats to steal data, disrupt systems, and infiltrate networks.  Self control/Being a world citizen: Computer Misuse Act and Fraud Act Mindfulness: Be a good digital citizen  Understanding democracy: Data protection act and the right to keep information secure?  Consequences of breaking the law Being a world citizen/awareness of where you live: How to protect youself and your data on the internet. How to protect youself and your data on the internet. Manage security software (e.g. anl-wirus, security patches, adware blockers) on my devices and understand why regular undates are important  Literacy - Comprehension and presentation skills  Understand how cyber security is one of the featest growing areas of the computing world.	Acquiring knowledge / curiosity: In this unit, learners will be introduced to data science, and by the end of the unit they will be empowered by knowing how to use data to investigate problems and make changes to the world around them.  Grit: Demonstrate determination by analysing complex data and drawing conclusions  Understanding democracy: Freedom of information Act Being a world citizen: - Anaylse data and global trends that effect citizens such as the environment  Literacy - Comprehension and report writing  Recognise careers that will have analysts as job roles and the importance of these roles to the business	Acquiring knowledge Spreadsheet Formula, Design Tools - or Flow charts  2 Mind maps 2 Story board 2 Visualisation diagram 2 Visualisation diagram 2 Wireframe Changing the world: What happens if the Internet goes down. Permanently. Not Fearing failure/creating independence/mastery: developing Spreadsheets Not Fearing failure/creating independence/mastery: developing Spreadsheets Grit/self-assurance - developing VB code/formulae independently Considering secondary storage - cost v capacity & performance. Protocols - what protocols are there in society? What new protocols appeared during lockdown?x Which have we adopted? Curiosity: What's in a data packet? Mindfulness: Can you imagine a world without computers?  How spreadsheets can be used in a variety of business situations.  Literacy - keyword vocabulary pertaining to spreadsheet (functions, conditional formatting, data validation, use of spell check, find and replace)  How can spreadsheets reduce workload in other areas of life?

Design Tools - ur Flow charts ur Mind maps Story board ur Visualisation diagram ur Wireframe	Understand the real-world uses and applications of AR in the workplace.	Understand the real-world uses and applications of AR in the workplace.	Apply knowledge and understanding of how technology is adapting in the world and the advantages/disadvantages of the software we can use.	Apply knowledge and understanding of how technology is adapting in the world and the advantages/disadvantages of the software we can use.	
Grit/self-assurance - developing VB code/formulae independently Considering secondary storage - cost v capacity & performance. Protocols - what protocols are there in society? What new protocols appeared utning lockdown?x Which have we adopted? Curlosity: What's in a data packet? Mindfulness: Can you imagine a world without computers?	Independence and creativity	Independence and creativity	Self-awareness of how our lives are impacted by the digital world.	Self-awareness of how our lives are impacted by the digital world.	
situations. Literacy - keyword vocabulary pertaining to spreadsheet (functions, conditional formatting, data validation. use of spell check, find and replace)	software  Narrative, story-telling and sequencing of ideas.	Narrative, story-telling and sequencing of ideas.	software  Analysing techniques	software  Analysing techniques	
How spreadsheets can be used in a variety of business situations. (Marketing, data scientists, etc)	Have an awarenes of the uses of AR in the workplace, including simulation and testing/training.	Have an awarenes of the uses of AR in the workplace, including simulation and testing/training.	Recognising how different careers are impacted by the technology we use.	Recognising how different careers are impacted by the technology we use.	
How can spreadsheets reduce workload in other areas of life?	Engagement with a new form of technology	Engagement with a new form of technology	How can technology be used to enhance our lives?	How can technology be used to enhance our lives?	
PD - protocols in society	Art/Design: 3D modelling, creativity, digital art Geography: interactive maps English: story telling and narratives Science: visualisation of systems	Art/Design: 3D modelling, creativity, digital art Geography: interactive maps English: story telling and narratives Science: visualisation of systems	Science - experiment process (problem, plan, test, analyse)	Science - experiment process (problem, plan, test, analyse)	
Careers Fair	AR - External after school club	AR - External after school club	Creating digital content and understanding how digital systems work	Creating digital content and understanding how digital systems work	
What we want the students to learn/he able to:  1. Analyse a problem and chose appropriate formulae and layout to present outcomes.  2. Planning - mind maps, structured diargams and flow-diargams.  3. Design the visual, queries and pivot tables.  4. Test solutions and alalyse suitability for the needs of the scenario.	What we want students to learn/be able to:  1. Understanding what AR is (including examples in everylay life, such as Potkemon Go. Snapchat filters and likea Place app).  2. Explore AR tools and platforms.  3. Creative Design and Visual Thinking.  4. Digital content creation.  5. Colaboration and Project Work.  6. Evaluation and testing of projects.	What we want students to learn/be able to:  1. Understanding what AR is (including examples in everyday life, such as Pokeron Go, Snapchat filters and likes Place app)  2. Expire AR tools and platforms  3. Creative Design and Visual Thinking  4. Digital content creation of the Content of th	What we want students to learnthe able to:  1. Understand and pply various design tools such as flow charts, mind maps, wire frames and visualisation diagrams to plan IT solutions.  2. Human-Computer Interface in everyday life - explore types of display devices and explore advantages/disadvantages of input devices.  3. Data and Testing - recognise the importance of data in IT systems and understand testing methods to ensure reliability and acuracy.	What we want students to learn/be able to:  1. Understand and apply various design floods such as flow charts, mind mape, wire frames and visualisation diagrams to plan IT solutions.  2. Human-Computer Interface in everyday life - explore types of display devices and explore advantages/disadvantages of input devices.  3. Data and Testing - recognise the importance of data in IT systems and understand testing methods to ensure reliability and accuracy.	
NEA ASSESSMENT R060 - Spreadsheets w/c 22/9/25 Submit coursework 31/10/25		Mock Exam - It in the Digitial World  NEA ASSESSMENT R061 - AR w/c 23/2/26  Submit coursework 14/5/26			
	<ul> <li>Inlind maps</li> <li>Story board</li> <li>Indiguisation diagram</li> <li>Inline in the control of th</li></ul>	Design Tools - a Flow charts   wind maps   Story board   Wireframe   Understand the real-world uses and applications of AR in the workplace.   Wireframe   Wirefra	Design Tools - o Flow charts or Mind maps or Story board or What happens if the Internet goes down. Permanenty.  Not fearing flature foresting independence/mastery.  Granging the world: What happens if the Internet goes down. Permanenty.  Not fearing flature foresting independence/mastery.  Grit feel feature are - developing VB code fromulae independently.  Considering secondary storage - cost v capacity & performance.  Protocols - what protocols are there in society?  What new protocols appeared during lockdown?x. Which have we adopted?  Curriosity: What is in a data packer?  Mindfulniess: Car you imagine a world without computers?  Letwary - Key and vocabulary setraining to spreadsheet stables. Letwary - key, and the set of t	Design Tools - of Pior charts In Mind mags - in Min	Design Toke - Flow mans Intelligence - Consideration disagram  Understand the meal-world uses and applications of AR in the woorlplace.  Understand the meal-world uses and applications of AR in the woorlplace.  Understand the meal-world uses and applications of AR in the woorlplace.  Understand the meal-world uses and applications of AR in the woorlplace.  Understand the meal-world uses and applications of AR in the woorlplace.  Understand the meal-world uses and applications of AR in the woorlplace.  Understand the meal-world uses and applications of AR in the woorlplace.  Understand the meal-world uses and applications of AR in the woorlplace.  Understand the meal-world uses and applications of AR in the woorlplace.  Understand the meal-world uses and applications of AR in the woorlplace.  Independence and creativity Independence and understanding of how technology is applicated to the source of the world and the advantage designation and the advantage des