

1.4 Network Security & 1.5 System Software					2.3 Producing Robust Programs					PPE1 (Nov)		2.5 Programming Languages and IDE's			
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	Week 14	Week 15	Week 16
Network Threats	Preventing Vulnerabilities	Operating Systems	Utility Software	Assessment and DIRT	Validation and Verification	Maintainable programs	Purpose of testing (Logic and Syntax)	Truth tables and final testing	Assessment and DIRT	School wide year 11 PPE window		Languages and Translators	Compilers and Interpreters	IDE's and Debugging	Assessment and DIRT
By the end of this task students will: -discuss security types. – strategies to keep your network and computer safe. – policies applied by companies to prevent security threats. - Understand the Functions of an OS. – Know the difference between Utility software and application software. – Able to give examples of Utility software and describe them thoroughly.					By the end of this task students will: discuss different testing strategies and their defensive designs. Be able to apply this to algorithms and program solving. Identify a trace-table and dry run an algorithm. Levels of programming, IDEs, compilers and interpreters. Common tools in an IDE							By the end of this task students will: understand high and low levels programming languages - understand the benefits of both. Understand IDEs, compilers and interpreters. Be able to identify Common tools in an IDE			
Homework: (NETWORKS) GCSE Pod videos (6 Pods), 2 written tasks and BBC BITESIZE revision task. (SYSTEM SOFTWARE) 3 GCSE Pod videos, 2 written tasks and BBC BITESIZE revision task.					Homework: 13 GCSE Pods and 2 written tasks.							Homework: 3 GCSE Pod videos, 2 written homework tasks. EACH STUDENT WILL RECEIVE A PERSONAL LEARNING PLAN reflecting weaker areas of PPE performance for them to revisit and revise			
Key Vocab: Adware, Anti malware, Anti-virus, custom written software, device driver, disk formatting, firewall, malware, multitasking. Open source, Closed source, freeware, shareware					Key Vocab: Auto documentation, code editor, debugger, error diagnostics, ide , runtime environment, syntax							Key Vocab: Auto documentation, code editor, debugger, error diagnostics, IDE , runtime environment, syntax			
Curriculum links: Paper 1 , A Level Computing, BTEC Level 3 IT					Curriculum links: Paper 1 and A Level Computing, BTEC Level 3 IT Database Unit							Curriculum links: Paper 2, A Level Computer Science			
Literacy: Digital Literacy and understanding new technical terminology															
Cultural Capital: Understanding network threats and how this will impact on their own use of technology and the networks around them															

Social, Moral, Spiritual and Cultural Development: Students are able to consider safer use of computers and the internet

Fundamental British Values: Employment Law and Discrimination: Computer Misuse, hacking and prevention methods

1.6 Impacts of Digital Technology				PPE2 (Feb)		Personal Learning Plans								
Week 17	Week 18	Week 19	Week 20	Week 21	Week 22	Week 23	Week 24	Week 25	Week 26	Week 27	Week 28	Week 29	Week 30	Week 31
Ethical concerns, robots and health care	Digital divide and Remote working	Disposing of equipment safely, Legislation and Privacy	Assessment and DIRT	School wide year 11 PPE window		<p>Students will be working on their individual areas of improvement, these will have been identified through PPE's, classwork and homework activities. Students have access to a number of resources to assist them in their learning:</p> <ol style="list-style-type: none"> 1. Lesson PowerPoints and Tasks. 2. Craig N Dave videos (Online). 3. OCR GCSE Revision Guides (x2). 4. GCSE Pod videos (Online and accessible from home). 5. Past Exam Papers. 6. BBC Bitesize. 7. Revision activities (Mind Maps, Flash Cards, Poster creation, reading and re-writing etc...) 8. Revision materials (See teacher) 								
<p>By the end of this unit, students will be able to: Understand the main ethical and cultural issues surrounding the use of technology. Understand the environmental issues surrounding the use of technology. Understand privacy issues surrounding the use of technology. now the main laws/legislation covering the use of technology and be able to describe their function</p>						<p>By the end of this unit students should have improved their weaker areas, revised other areas of strengths and be well prepared for the examinations</p>								
<p>Homework: 4 GCSE Pods, 3 written tasks and BBC BITESIZE revision tasks</p>						<p>Homework: EACH STUDENT WILL RECEIVE A PERSONAL LEARNING PLAN reflecting weaker areas of PPE performance for them to revisit and revise</p>								
<p>Key Vocab: Data protection, Crime, Copyright, intellectual property, environment, disposal, robots and automation, digital divide and accessibility</p>														
<p>Curriculum links: Paper 1 and A Level Computing, BTEC Level 3 IT</p>														

Literacy: Digital Literacy and understanding new technical terminology, developing their ability to present reasoned arguments using evidence to support views

Cultural Capital: developing an understanding of the ethics surrounding the development of the world of computing, AI, jobs and opportunities, robots and healthcare

Social, Moral, Spiritual and Cultural Deveopment: How equipment can be safely disposed of in terms of data and also the environment

Fundamental British Values: Employment Law and Discrimination: GDPR legislation and privacy

GCSE EXAM WINDOW		
Week 32	Week 33	Week 34
GCSE EXAM WINDOW		

