Bishop Heber High School

Subject	Year	Term
Computer Science	11	2

Topic

System Security And The Law

Content (Intent)

Prior Learning (Topic) Social impact of technology and the laws related to technology

The security threats to networks, how they work and how they can be removed. What sort of security procedure is appropriate for different types of networks and computer systems. Examples of how systems have been attacked and how they could have been prevented, including cyber warfare tools such as Stuxnet. The implications for the future of safe system.

Logic and programming. How circuits are created in the CPU and circuit boards, truth tables and simplification. Recap on programming and practice how to solve problems with pseudocode, functions and procedures, passing parameters, and calling functions.

Future Learning (Topic) Exam preparation

What Knowledge and Skills will be taught (Implementation)	How will your understanding be assessed & recorded (Impact)
Threats to networks from hacking and how they can be tackled, including how malware is used and how people are the weakest point in most systems. How a good network policy can protect a network from attack	Students will be given a variety of questions from across a wide variety of topics and asked to prepare answers for the questions and then sit an exam during an hour lesson.
Logic, build truth tables from AND OR and NOT. These are the basis for all logical operations. Outline syntax of pseudocode and how it should be used to solve problems, with particular reference to problems likely to be experienced in the exam.	A series of problems from past exam papers, attempted in class and marked in class using peer assessment. Revision will be done at home through a series of exercises outlined in the course textbook.

How can parents help at home?

Ensure students revise for class tests and complete the homework. They should be revising using the course textbook.

Helpful further reading/discussion (including Reading and Vocabulary Lists)

Reading

CGP Computer Science ISBN: 9781782946021
GCSE pod
Teach-ict.com
Google quizzes

Vocabulary Lists

Explain
Describe
Evaluate
Outline