Bishop Heber High School

Subject	Year	Term
Computer Science	11	2

Topic

Logic and languages and programming

Content (Intent)

Prior Learning (Topic) Algorithms and programming

Logic and programming. How circuits are created in the CPU and circuit boards, truth tables and simplification. And, OR Not logic gates combined.
Integrated Development Environment and its use in debugging code (interpreter) and creating executable code (compiler).
Also low level languages and high level language differences and in what circumstances both should be used

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)
Recap IDE for formal exam Translation of source code through interpreter and compilation, techniques used trap errors, types of errors. Breakpoints, stepping variable watches Low and high level language opcode and operands. Defensive design and error trapping.	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
PG-online powerpoints
Google quizzes

Vocabulary Lists
Explain
Describe
Evaluate
Outline