GCSE COMPUTER SCIENCE - LEARNING JOURNEY

SUCCESS COMES FROM HARDWORK

Homework

Homework for **each** of the **topics in** your Homework book

OCR J277 – From 2020
Component 1 – Computer Systems 1.5 hrs
Component 2 – Computational Thinking, Algorithms & Programming 1.5hrs

YEAR 10 GCSE

AUTUMN TERM

- Introduction
- 1.2.3 Units
- How can 10 = 2?
- 1.2.4 Data storage - Characters
- Practical Programming
- 1.2.4 Data storage - Images
- 1.2.4 Data storage - Sound
- Practical Programming
- CHRISTMAS HOLIDAY

SPRING TERM

- START OF GCSE
- 2.4.1 Boolean logic
- 1.2.4 Data storage - Numbers
- 2.1.1 Computational thinking
- 2.1.2 Designing, creating and refining algorithms
- 1.2.5 Data storage - Compression
- End of Unit Test
- 1.2.2 Secondary storage
- 1.2.1 Primary storage (Memory)
- 1.1.3 Embedded systems
- 2.2.1 Programming fundamentals
- 2.2.2 Data types
- 2.2.1 Programming fundamentals
- EASTER HOLIDAY

SUMMER TERM

- End of Unit Test
- 2.2.3 Additional programming techniques
- 2.2.1 Programming fundamentals
- 1.1.2 CPU Performance
- 1.1.1 Architecture of the CPU
- Practical Programming Skills
- Programming Challenge
- 1.2.2 Secondary storage
- 1.3.1 Networks and topologies
- 1.3.2 Wired and wireless networks, protocols and layers
- Practical Programming Skills
- Year 10 Exam
- SUMMER HOLIDAY

YEAR 11 GCSE

AUTUMN TERM

- 2.5.2 The Integrated Development Environment (IDE)
- Programming Revision
- 2.5.1 Languages
- 1.5.2 Utility software
- 2.3.2 Testing
- 2.3.1 Defensive design
- 1.5.1 Operating systems
- 1.4.2 Identifying and preventing vulnerabilities
- 1.4.1 Threats to computer systems and networks
- 1.6.1 Ethical, legal, cultural and environmental impact
- End of Unit Test
- CHRISTMAS HOLIDAY

SPRING TERM

- 2.1.3 Searching and sorting algorithms
- Searching and Sorting Practical Programming skills
- Practical Programming Skills Revision
- Programming Challenge
- Mocks
- Revision
- Revision
- EASTER HOLIDAY

SUMMER TERM

- Testing
- Revision
- Programming Challenge
- Revision
- Testing
- Programming Challenge
- Testing
- Revision
- Programming Challenge
- Exam Paper 2
- Exam Paper 1
- HALF TERM
- SUMMER TERM