



Computing Department LEARNING JOURNEY



OCR
Oxford Cambridge and RSA

Exam Technique / Targeted Revision



Micro teach sessions



Year 11 PPE Paper 1

GCSE Computer Science Exams Paper 1 & 2

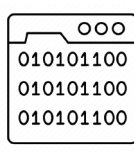
Develop programming and exam skill for final assessments

Recap Paper 2 Topics

Recap Paper 1 Topics



Year 11 PPE Paper 2



Truth Tables

Development Environment

TIME Programming Techniques

Testing

Boolean Logic

Languages and IDE

YEAR 11

Programming Project

Micro teach sessions

Robust Programs

Defensive Design

Logic Gates

High and Low Level Language

Plan, Design and Testing

Maintainability

Programming Fundamentals

Algorithms

YEAR 10

Ethical, Legal and Culture



Construct s

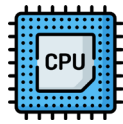


Data Types

Flowcharts Abstraction

Operating system

What slows the CPU: Registers, Cache and Cores



Primary and Secondary storage

Characters, Images and Sound



LAN and WAN

Malware

E-Waste

Laws

System Architecture

Memory and Storage

Computer Networks

Network Security



Understand each section of the CPU

Units of data storage

Wired and Wireless

Protocols

System Vulnerabilities

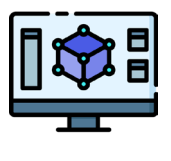
YEAR 9

Make appropriate use of data structure



Design and develop modular programs

How instruction are stored and executed



App Development

AI and Machine Learning

Intro to Python

Understanding Computers

Real-World Problems

Repurpose artefacts for a given audience

Combining multiple applications to achieve goals

Computational Problem solving

Logical reasoning

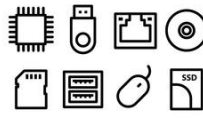
How computer systems communicate

Design



Game Development

Hardware and Software Interaction



Online Identity



Computational Abstractions

Modelling

Will AI be our future?

Kodu

Microbit

YEAR 8

Cyber Crime and Security



AI and Machine Learning

Where do AI fit in our lives?

Collecting Data

Understanding of simple operations



Online Identity



Recognising inappropriate content

Online Security



Sound Editing

First Steps in Small Basic

eSafety

YEAR 7

Sound and Binary

Sound Sampling

Selection

Start using Text base programming

Interacting safely and appropriately online

