

Long Term Plan

IGCSE ICT

IGCSE Computer Science

2021-2022	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer
	7 weeks	7 weeks	7 weeks	7 weeks	7 weeks

Long Term Plan | ICT and Computer Science



PEYIA Vogra 10	Problem Solving	Programming	Programming	Data	Computers
Year 10 IGCSE Computer Science	Problem SolvingHow computer systems workDesign, implementation and analysis of algorithms for solving problems.Computational problems including: - problem-solving tasks - pseudocode command set - flowchart symbols-Algorithms - Decomposition & abstraction	Programming Develop and practise programming skills, developing knowledge and skills in at least one of the following programming languages: 1. Python 2. C# 3. Java	Programming Develop and practise programming skills, developing knowledge and skills in at least one of the following programming languages: 1. Python 2. C# 3. Java	 Data Develop ability to store and manipulate large quantities of data using binary to represent different types of data. learn how different types of data are represented in a computer. Binary Data Representation Data storage & compression Encryption 	Computers Familiarisation of hardware and software components that make up a computer system and recognise that computers take many forms, from embedded microprocessors to distributed clouds. - Machines and computational modelling - Hardware - Logic - Software - Programming languages
Year 11 IGCSE ICT	Digital Devices & Connectivity Digital Devices - know about the range of digital devices available. Connectivity - know how digital devices exchange data & communicate.	Operating Online & Online Goods and Services Operating Online - understand the risks to individuals and organisations of operating online. Online Goods and Services - know about networks and online systems.	Applying Information & Communication Technology & Software Skills Applying Information and Communication Technology using a range of software applications effectively and appropriately. Software Skills demonstrate skills in using the software applications.	Revision & Exam Practice	Study Leave & Exams