Year 11 Computer Science LEARNING JOURNEY

Producing Robust Programs - Testing
- Planning – Iterative & Final

Trace Tables
- Manual Data Tracking

Programming Techniques
- Sequence, Selection, Iteration

COMPUTING & ICT DEPARTMENT
Gunnersbury Catholic School

AI Issues
- Inference Engine
- Machine Learning

Procedures & Functions
- Local & Global Variables
- Parameters

Legal Issues
- Computer Misuse
- Copyright & GDPR

Algorithmic Thinking
- Searching & Sorting
- Pathfinding

Pseudocode & Flow Charts
- Pictorial Representation
- Step-By-Step Sequence

TCP/IP Model
- Layers
- Standards

Network Topologies
- Physical – Equipment & Connections
- Logical – Data Flows

COMPUTER SYSTEMS ALGORITHMS & PROGRAMMING

The Digital Divide
- Digital Access
- Inequality

Boolean Logic – AND, OR & NOT
- Logical Comparisons
- Test Conditions

Device Drivers
- Peripherals
- Assembly Code

The Cloud
- Internet Services
- Virtual Space

Pattern Recognition
- Identifying Patterns
- Lateral Thinking

Decomposition & Abstraction
- Subroutines – Break Tasks Down
- Remove Unnecessary Detail

Computational Thinking
- Approaches to Problem Solving

SOFTWARE Systems & Applications
- Housekeeping Tasks
- Coding & Applications

Operating Systems
- Graphical GUI
- Command Line CLI

Year 11

Using Computing Devices at Home

Gunnersbury Catholic School
enabling Catholic boys to achieve to the very highest
KILGARRIFF
AD ALTIORA