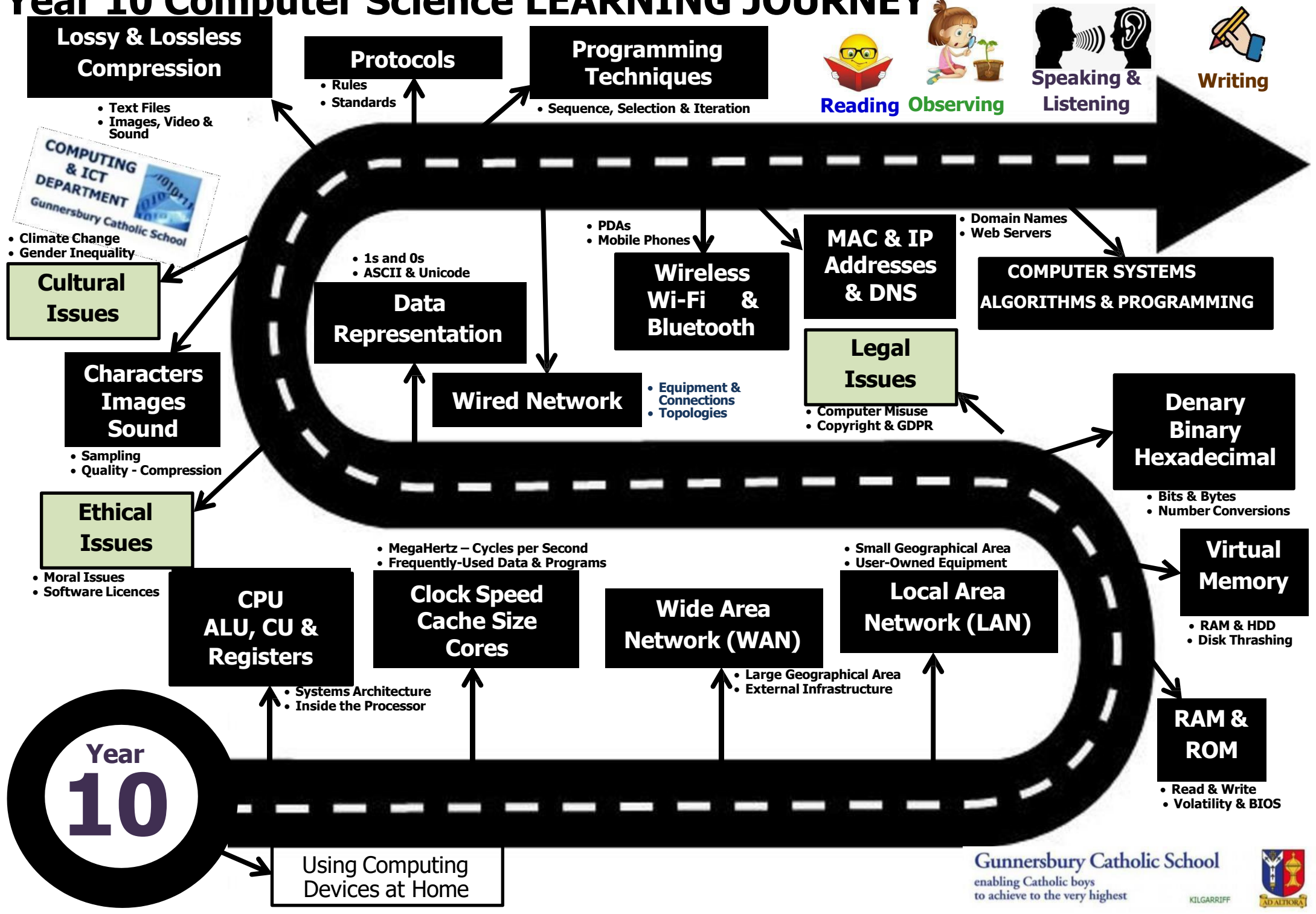


Year 10 Computer Science LEARNING JOURNEY



Lossy & Lossless Compression

- Text Files
- Images, Video & Sound

Protocols

- Rules
- Standards

Programming Techniques

- Sequence, Selection & Iteration



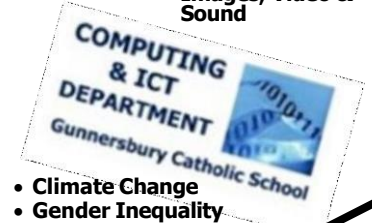
Reading Observing



Speaking & Listening



Writing



Cultural Issues

- Climate Change
- Gender Inequality

Characters Images Sound

- Sampling
- Quality - Compression

Ethical Issues

- Moral Issues
- Software Licences

CPU ALU, CU & Registers

- Systems Architecture
- Inside the Processor

Clock Speed Cache Size Cores

- MegaHertz – Cycles per Second
- Frequently-Used Data & Programs

Wide Area Network (WAN)

- Large Geographical Area
- External Infrastructure

Local Area Network (LAN)

- Small Geographical Area
- User-Owned Equipment

RAM & ROM

- Read & Write
- Volatility & BIOS

Data Representation

- 1s and 0s
- ASCII & Unicode

Wired Network

- Equipment & Connections
- Topologies

Wireless Wi-Fi & Bluetooth

- PDAs
- Mobile Phones

MAC & IP Addresses & DNS

COMPUTER SYSTEMS ALGORITHMS & PROGRAMMING

- Domain Names
- Web Servers

Legal Issues

- Computer Misuse
- Copyright & GDPR

Denary Binary Hexadecimal

- Bits & Bytes
- Number Conversions

Virtual Memory

- RAM & HDD
- Disk Thrashing

Using Computing Devices at Home

