COMPUTER SCIENCE LEARNING JOURNEY







- 2.5 Programming Languages & IDE
- Integrated Development Environment High Level & Low Level languages

2.4 Boolean Logic

- AND
- OR NOT

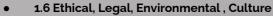
2.3 Producing Robust programs

- Defensive design consideration
- Maintainability
- Input validation

2.2 Programming **Fundamentals**

- Variables and
 - Strings File Handling
- Arrays Loops





- Computer Laws
- Environmental
- Cultural



- 2.1 Algorithms
- Searching & Sorting
- Flowcharts
- Pseudocode

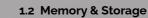


Encryption

- Systems Utility **Programs**
- 1.4 Network Security
- Brute Force Attack **SQL** Injection

1.3 Computer Networks, connections and protocols.

- LAN and WAN
- Internet
- Topologies



- Primary and Secondary
- Data Representation





Networks

- Connectivity
- Topologies
- Client Server/Peer to
- Encryption
- - Design

CSS

- Development
- Web forms





- Python Next Steps Searching & Sorting
- Algorithms While Loops
- Arrays Python Turtle

- Image Recognition
- **Email Scams** Machine Learning
 - Computer Misuse
 - Protecting Personal Data
 - Copyright

Cybercrime





E-Safety

- File Management Social Media
- Keeping your data safe

What is Al

- Ethics of Al
- Turing tests and Al

- Health & Safety

Strings and Variable<mark>s</mark>

Arithmetics Selection Loops





- Kodu 3D gaming
 - Storage Game Design
 - Kodu Game Lab



E-Safety

- File Management
- Social Media
- Keeping your data

Understanding Computers

- Hexadecimal
- Storage
- Binary Addition Elements of a
- Computer







- Algorithms Development l Life Cycle
 - - Rows
 - Columns
 - Formulas
- **Computational Thinking** Abstraction
 - Algorithm
 - Logic Gates

E-Safety

- safe









Functions

