COMPUTING

CURRICULUM JOURNEY

GCSE COMPUTING PATHWAY

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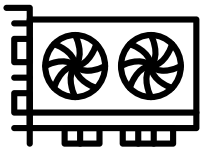
2. Programming Paradigms
Programming Methods
Project – Development

4. Project Focus – Finish development
Project Focus – Evaluation
Final project compilation and check

1. Application generation
Software development
Big O Notation
Project – A and B refinement

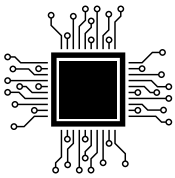
3. Programming Languages
Project – Development
Revision of misconceptions



1. CPU Architecture
Processors
Input, Output and Storage
Memory
Abstraction basics

5. Networks
Web Technology
Project – Analysis

3. Data types
Binary, Hex and Floating Point
c.Data Structures



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6. Computational Thinking
Algorithms
Project – Design

4. Compression
Hashing
Databases

2. Logic and algebra
LMC
Legislation
Impacts on Society

1. Defensive Design
1.1 Revise, assess and Reflect
1.2 Revise, assess and Reflect

3. 1.6 Revise, assess and Reflect
2.1 Revise, assess and Reflect

6. 2.5 Revise, assess and Reflect

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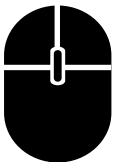
2. 1.3 Revise, assess and Reflect
1.4 Revise, assess and Reflect
1.5 Revise, assess and Reflect

4. 2.2 Revise, assess and Reflect
2.3 Revise, assess and Reflect
2.4 Revise, assess and Reflect

5. Python Challenges 1
Search and sorts
Data types
Programming Techniques

3. Python iterations
Computational Thinking
Programming fundamentals

1. Python basic skills refresh
CPU Architecture
RAM, ROM and Virtual Memory
Network Security



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6. Python mini project
Impacts of computer science
Boolean Logic
Translators and Language

4. Python Functions
Systems Software
Networks
Wired/wireless technology

2. Python mathematical operations and conditionals
Units
Data Storage
Compression

1. Computer Science - Python in Minecraft

3. Computer Science - Games Design

5. Computer Science - Coding a game in Python

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2. iMedia - Graphic Design Project

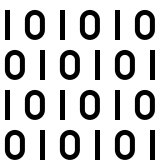
4. iMedia - Interactive Digital Media Project

6. iMedia - Audio & Video Projectt

8. PC Hardware & Networking
9. Advanced Microbits Programming
10. Search & Sort

4. Scratch Games Design Project

1. Mastering Code.org
Coding Constructs



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11. Advanced Coding in Python
12. Creative Design Project

5. Movie Poster Design Using Photopea
6. Image binary
7. Advanced Logic Gates

2. Mastering Binary
3. Advanced Logo Design

1. Introduction to Code.org
Coding Constructs

4. Hardware & Software
5. Menu Design Using Photopea

8. Beginning Coding in Python
9. Coding in Minecraft

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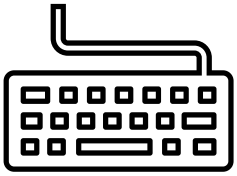
2. Beginning Binary
3. Text Binary
4. Vector Logos

6. Turtle Academy Coding in Logo
7. Logic Gates

10. Programming Microbits
11. Web Design Project



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