

Computer science



TOPIC 1 *problem solving*

Algorithms
Decomposition and Abstraction
Interpreting Output
Searching and Sorting Algorithms

TOPIC 3 *data*

Number Bases
Using Binary
Compression
Images
Characters
Instructions
Binary Manipulation
Sound
Hexadecimal (hex) Numbers

TOPIC 5 *communication and the internet*

Networks
Network Hardware
Network Topologies
Network Technicalities
Internet file Standards
The Internet
Types of Network

TOPIC 6 *the bigger picture*

Environmental Issues
Privacy issues
Types of Software
Legislation
Ethical Impact

TOPIC 2 *programming*

Control Flow
Interpreting Algorithms
Searching and Sorting
String Manipulation
Data Types
Mathematical Operators
Data Structures
SubPrograms
Variables and Constants
Testing

TOPIC 4 *computers*

Input Devices
Output Devices
Memory
Types of Computer Systems
Hardware
Binary Logic
Secondary Storage
Central Procession Unit

software

Software
System Software
Simulation & Modelling
Programming
Security
Programming Languages
Application and utilities

