EGGBUCKLAND
THE ROAD MAP TO

COMPUTING AND DIGITAL INFORMATION TECHNOLOGY
CURRICULUM 2022-2023

Balanced | Rigorous | Coherent | Vertically Integrated | Appropriate | Relevant

YEAR 11

Component 2: Learning Aim C- Collecting, presenting and interpreting data; draw conclusions and review data presentation methods (identifying trends and patterns)

Component 2: Learning Aim A- Collecting, presenting and interpreting data; investigate the role and impact of using data on individuals and organisations

Component 2: Learning Aim B- Collecting, presenting and interpreting data; create a dashboard using data manipulation tools (formulae, spreadsheet manipulation, navigating spreadsheets)

Component 3: Learning Aim D- Effective Digital Working Practices; planning and communication in digital systems (interpretation)

Component 1: Learning Aim C- Exploring user interface design principles and project planning techniques (Development, refining and reviewing)

Component 3: Learning Aim C- Effective Digital Working Practices; the wider implications of digital systems (online security)

Division by zero

Printer out of ink, paper or paper jam

YEAR 10

Component 1: Learning Aim A- Exploring user interface design principles and project planning techniques (User interfaces, Audience Needs, Design Principles)

Component 3: Learning Aim A- Effective Digital Working Practices; modern technology (Modern technology and cyber security)

Component 1: Learning Aim B- Exploring user interface design principles and project planning techniques (Planning, creating and designing a project)

Component 3: Learning Aim B- Effective Digital Working Practices; Cyber security (Scams, espionage, phishing or pharming, encryption)
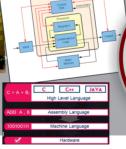
Transport Layer • UDP
Internet Layer • IP Addresses – IP v4 and IP v6
Network Access

Mobile App development

YEAR 9

Computational Thinking is a logical approach to problem solving. It applied to ANY problem, task or system. four parts which identify problems formulate solutions. Computational can be applied with or without a

Media

Navigating spreadsheets

CPU — Control Unit, Processor, Registers, Combinational Logic, Input, Output, Main Memory

HTML CSS Generics
Build a Website

Cybersecurity

(NOT A) OR (B AND C)

C = A + B; High Level Language
ADD A , B Assembly Language
100100111 Machine Language
Hardware

YEAR 8

Python

B D A C → A B C D
Sorting Algorithms

IT and the world of work

Data Science

0 1 0 1
+0 +0 +1 +1
‾‾ ‾‾ ‾‾ ‾‾
00 00 00 10

Carried bit

Logic gates
OR   NOT   AND

Internet · ADSL/ Cable Modem · WLAN · Laptop · Work PC · Media PC

BBC micro:bit
USB BLE ANTENNA RESET BATTERY
PROCESSOR COMPASS ACCELEROMETER PINS

Navigating spreadsheets

Digital literacy

E-Safety
Safe Forum Games Internet Blog Cyber Bully Virus Download

Online communication

COPYRIGHT

YEAR 7