



BRUTON SCHOOL
FOR GIRLS
ON SUNNY HILL

COMPUTER SCIENCE

Mr W Talbot-Ponsonby

General Introduction

This subject has evolved from the previously offered Computing GCSE. It is designed to develop:

- valuable thinking and programming skills that are extremely attractive in the modern workplace
- a deep understanding of computational thinking and how to apply it through a chosen programming language

The programming language which the girls will use is expected to be Python

Course Specification

The course carried out will be OCR GCSE Computer Science (9-1), J276.

Summary of Course Content

Computer systems

- Systems Architecture
- Memory
- Storage
- Wired and wireless networks
- Network topologies, protocols and layers
- System security
- System software
- Ethical, legal, cultural and environmental concerns

Computational thinking, algorithms and programming

- Algorithms
- Programming techniques



Patrons: Mrs A Maw, Lord-Lieutenant of Somerset and Lady Gass DCVO

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- Producing robust programs
- Computational logic
- Translators and facilities of languages
- Data representation

How the Course is assessed

Each of the topic areas above are tested by an examination, lasting 1 hour 30 minutes, and counting for 40% of the final grade. There will also be a programming project carried out which accounts for the remaining 20% of the grade.