Subject: Computer Science (AQA)

Teacher responsible for the subject: Mr Martin

Contact email address: r.martin@cns-school.org

City of Norwich School
An Ormiston Academy | *Excellence in all*

This course covers:
This course gives students a real, in-depth understanding of how computer technology works. It's a great way to develop critical thinking and analysis and problem-solving skills, which can be transferred to further learning and to everyday life.

YEAR 1:
In year 1 we prepare students for success in paper 1. We learn about programming and then spend extended time solving problems using Snakify. The expectation is that students acquire the ability to apply a systematic approach to problem solving

- Fundamentals of algorithms
- Programming Basics
- Programming Techniques
- Fundamentals of data representation

YEAR 2:
In year 2 we consolidate this learning of programming and augment it with knowledge about aspects of computer science covered in paper 2. The knowledge acquired can then be applied to novel programming challenges in paper 1.

- Computer systems
- Fundamentals of computer networks
- Cyber security
- Relational Databases and SQL
- Impacts of Digital Technology

The teachers say: "We love teaching this course because:
"It allows students to develop their problem solving skills"
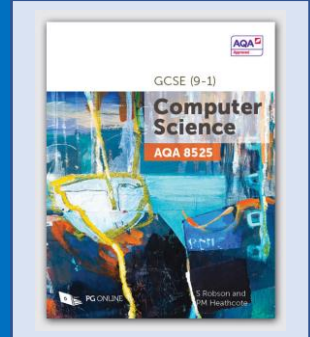"So many students successfully progress to further study in computer science from this course"

The students say: "We enjoy this course because:
"We find out so much about programming"

What future pathways might be open to me if I study computer science?
GCSE Computer Science teaches computing which is of enormous importance to the economy and focuses on computer technologies that are relevant in the modern world. GCSE Computer Science also gives a thorough grounding in computing, creating opportunities for students to move on to A-levels, vocational courses, industry recognised IT qualifications, employment and degree courses in the areas of computing, engineering and science.

Core Textbook:

AQA GCSE (9-1) Computer Science 8525 (Textbook), PG Online, 9781910523223

Our recommended Revision Resources:
GCSE Computer Science AQA: Revision Bundle

- GCSE Computer Science AQA Revision Guide
- GCSE Computer Science AQA Exam Practice Workbook
- GCSE Computer Science AQA Revision Cards