



# Hampton Court House

## Curriculum Outline 2020/21 – Year 13 ICT & Computing (NVA)

### Autumn 2020

This term, students will look at data structures - array, lists, stacks, queues, hash tables, graphs, binary trees which can help programmers in storing and accessing data in a computer program.

They will focus on different algorithms which are used for sorting and searching data. The students will learn more advance algorithms like graph traversal, dijkstra.

They will practise past exam papers to understand the style of exam questions and learn exam technique.

The students will be assessed on all units through unit tests and mock exams. The class tasks and quality of homework will be assessed and the student is provided feedback.

Links with fundamental values

The students will learn how to conduct themselves online, use of social media in accordance with fundamental British values.

Social, moral, spiritual and cultural content

The students will learn how to use social media in accordance with fundamental British values.

Opportunities to independently extend learning

The students will be informed about online seminars and activities which they could book to benefit themselves.

### Spring 2021

They will look at networks such as the internet and the security threats they face. They will look at HTML, CSS, and Javascript. They will investigate search engines and client server as well as peer-to-peer protocols.

The students will learn about exchanging data using database management concepts. They will learn how data is stored and accessed in a database.

The students will work on their project design, implementation and testing. The bulk of the term will be devoted to completing their project testing and evaluation.

### Summer 2021

Students will revise all units.

They will complete their project documentation for moderation.