

Stepney Green Sixth Form. Computer Science AS and A Level. Curriculum Statement

Intent

To give students the skills and knowledge that will equip them for life through a high quality computing education where pupils develop computational thinking and creativity through a purposeful, rigorous and enjoyable curriculum.

We aim to ensure our curriculum provides pupils with intellectual rigour in the subject through high quality teaching to enable deep learning to take place. Pupils will develop a set of skills and knowledge at the end of each year which will work as a building block to the next. To enable deep learning to take place, links will be made between the units as well so that pupils understanding of IT, digitally literacy and computational thinking is reinforced

Implementation

All Computer Science Schemes of work has been developed collectively by all specialist who deliver, understand and assess the curriculum. We ensure that Component 1 and Component 2, is being delivered by all specialist so we have a professional understanding to alternate year by year.

Students are introduced to exam requirements early on for both AS and A level as we collectively feel this allows them to structure their verbal and written responses immediately and therefore develop their exam skills as they increase their knowledge base. This is a great form of self-aware feedback for students as they can clearly see/hear improvements in their answering over the year(s).

All classes follow the set 2-year Scheme of Work, and differentiation is provided by teachers on a specific and real time basis. Support and scaffolding of concepts is available to students through a variety of verbal and physical resources that are tailored as and when needed. There is a clear emphasis on collaborative learning within the subject as students are encouraged to challenge and support each other in written and verbal tasks.

In terms of supporting vulnerable students we are fully equipped with the latest resources which allows us to provide resources for these students to use during lesson, as well as be able to take resources home.

We deliver a curriculum that allows pupils to develop transferable skills and knowledge; pupils will become **digitally literate**, they will learn about **information technology** and be able to provide a solution computationally (**computer science**). Whilst pupils progress through their Stepney Green journey they will be able to develop their skills and knowledge within the three areas through practical experience of writing computer programs and through the development of other IT systems.

Impact

A curriculum which promotes academic scholarship and ambition to do well regardless of any stereotypes. We deliver a curriculum which motivates, encourages and promotes leadership whilst giving pupils the confidence having a career in the IT industry or into higher education studying at Russell Group universities.

Impact is also measured through various aspects from growing class sizes, recruiting students from different demographic; gender and ability.