The Knatchbull Baccalaureate - Academic

Curriculum Intent

Curriculum Vision | Computer Science

All students at NKS should be responsible digital citizens armed with the skills and knowledge that will equip them for life in the 21st Century. In studying a broad range of topics and activities, using innovative learning tools, we aim for our students to be confident to use technology throughout their lives and beyond.

All students

- should have a broad understanding of computer systems and technology in its use in real life, including how computer systems affect the environment and culture within society, and awareness of legal and ethical considerations;
- evaluate developments in the subject, including future developments such as AI and machine learning
- should have a comprehensive knowledge of how computer systems work and connect together;
- should understand algorithms used in the real world and be able to plan and develop their own algorithms to solve real life problems;
- should have a passion for using technology to improve their personal, social and working life.

Successful navigation of the subject within the world

- Our Computing curriculum aims to equip our students with, for example, the knowledge and skills to be able to use computing technology to support their professional and personal life.
- We aim to provide students with the passion to want to seek out and explore new technologies as they are discovered, and explore beyond the experiences provided within the classroom
- We aim to provide open tasks in lessons that encourage students to take a creative approach to their learning, feeling the freedom to explore their own ideas.

COMPUTER SCIENCE Longer answer questions, Longer answer question, Project completion Project completion practise Etomination practise EXAM Key FINALEXAM Stage 5 GCE CS students will pursue advanced aspects of number, 0 0 networking programming. HMM (CSS) langeriph, Amm (CSS) langeriph, CSS) langeriph, CSS (CSS) lang algorithms, EXAM systems FINALEXAM architecture. YEAR They prepare for application to degrees in CS and IT A LEVEL SELECTION Exampreparation, exampreparation, technique, ppe review Year 11 PPE IDEs and Translators, IDEs and Testing, IDES and Testing, IDES and Translation IDES and Translation IDES and Translation IDES and Translators, IDES and Testing, Key Stage 4 GCSE students extend their basics from 1001 -0011 KS3 to build **DDoS** sophisticated knowledge of -0111-0 Combridge 2017 Volg guenal Linking 2017 Webutuh Mutung computing systems and how they YEAR 10 PPE operate in the real world, as well as being able to solve real problems using algorithms Coding Con Registers winder Text Images on Sound and Compression Coding How the Internet Coding How the Internet Coding How the Internet YEAR Key Stage 3 From knowledge of the basics of programming from KS1-2. Searchine and Sortine alegontroled loops Bineri Addition, Flow Bineri students Heradecimal and Heradecimal and Screedings modelings Screedings model Year Assessment develop their terminology to YEAR describe algorithms, searching and sorting. They program in visual as well as textual languages, applied to web Baseline based and assessment YEAR Computer Hardware computing scenarios. X P N