



## Computer Science

### Room: LRC

Computer Science – Cambridge Advanced National in Cyber Security and Networks

#### What the Students Say

*“Challenging and rewarding”*

*“Teaches you skills for life”*

*“The subject really challenges me to think logically and find creative solutions”*

*“Exciting to be studying real-world problems”*

#### What Is This Course About?

This course aims to encourage students to develop and apply skills and knowledge and seeks to further your understanding of computing, focusing on Cyber Security. You will be expected to show skills of creativity and innovation and will develop further your analytical, critical and logical thinking skills. You will consider the consequences of using computers to include social, legal, and ethical issues and will investigate emerging technologies and their impact on society. You will study the risks to computer networks and methods of prevention.

#### What Will I Learn?

This course is made up of both coursework (NEA) and exam units. You will study 5 units in total across the course, 2 of which are assessed via external exams. The units of study include: fundamentals of cyber security and networks, preventing cyber-attacks, digital forensics and learning about penetration testing. As such, a large amount of time will be spent on a computer. This programme provides learners with a comprehensive understanding of the principles and practices of cyber security, covering topics such as digital threats, risk management, cryptography, and ethical hacking. The course is designed to equip students with the technical knowledge and practical skills needed to identify, assess, and mitigate cyber risks in a variety of real-world scenarios.

#### Where Will It Take Me?

This course has been designed for students who wish to go on to Higher Education courses or employment where knowledge of Computing and Cyber Security would be beneficial. In addition, you could also study Computing and go into a career in medicine, law, business, politics or any type of science. Successful completion of the Cambridge Advanced Nationals Cyber Security course can also support progression to Higher Education or specialist apprenticeships in the rapidly evolving cyber security sector.



# Corfe Hills School

High Expectations | Exceptional Individuals

## What Other Opportunities Exist Outside of Class?

We are always seeking to extend your learning outside the classroom and will provide internet-based resources. There are also opportunities to help support students from the lower school in Programming Club.