THE BOURNE ACADEMY

Computing Overview

Technology is all around us. Whether in work, home or school, computers have an impact on our day to day lives. When was the last time you used one? When was the last time you were creative with one? Life without computers is almost unimaginable. There is almost no job that does not involve computers in some way.

Key Stage 3

Year 7 & 8: One hour every fortnight. Homework available on Show My Homework.

Aims:

- To develop practical IT skill sets by using a variety of IT programs, such as the Microsoft Office package.
- Be able to analyse problems in computational terms and have practical experience of writing computer programs in order to solve such problems.
- Be able to evaluate and apply information technology, including new or unfamiliar technologies, analytically to solve problems.
- Are responsible, competent, confident and creative users of technology.
- To develop an understanding of the wider applications and effects of IT and Computing.

Key Stage 4 (Year 10) – Creative iMedia

Five lessons per fortnight, homework is set weekly

Aims:

Cambridge National in Creative iMedia equips students with the wide range of knowledge and skills needed to work in the creative digital media sector. They start at pre-production and develop their skills through practical assignments as they create final multimedia products. Students should be able to use technology in a productive manner with an awareness of how to navigate the online world in a safe and respectful way. Students should be able to apply their knowledge and understanding of IT to solve real-world issues, such as design and building websites, creating digital graphics and writing code.

Overview:

- Pre-Production Skills – Exam Unit
- Digital Graphics Coursework
- Multi-Page Interactive Website Design Coursework

Key Stage 4 (Year 11) – OCR Computer Science

- Five lessons per fortnight, homework is set weekly
- 20 Hour Programming Project
- Two theory exam papers at end of year

Aims:

The course encourages students to develop their understanding and application of the core concepts in computer science. They should be able to demonstrate the key concepts of a computer system and how networks are used to share data. Students should be able to apply their knowledge and understanding to design programs that solve real-world issues and be able to analyse problems in computational terms such as making reasoned judgements and devise creative solutions by designing, writing, testing and evaluating programs. Students should be able to use technology in a productive manner with an awareness of how to navigate the online world in a safe and respectful way.