

# Computer Science at Padgate



## Ready for the future

Completing either Computer Science of Creative iMedia opens up huge job prospects. Both courses show course leaders and potential employers you have functional IT skills & problem solving skills – essential to every workplace

## Creative iMedia

Using IT software to meet real world work scenarios such as:  
Producing digital graphics  
Producing a radio advertisement  
Creating a multimedia website

## Year 9

Understanding network topologies & protocols  
Understanding the impact of cyber-attacks and what possible ways they could be prevented  
Exploring advanced techniques in text-based programming language, Python

## Year 8

Identifying the needs of target audiences  
Applying real-world scenarios to produce professional quality digital graphics & audio advertisement  
Verbally explaining differences between hardware components & similarities

## Year 7

Importance of E-Safety  
Understanding variables & algorithms  
Using text & block based programming languages & terminology

## Year 7-11 Learning journey

## GCSE Computer Science

J277/01: Computer systems (CPU, fundamentals, memory, networks, systems software, legal & ethical computing)  
J277/02: Computational thinking, algorithms and programming

## Year 9

Preparation for taking either option – Creative iMedia (using IT software to meet real world work scenarios or Computer Science – in-depth understanding of how computers work & programming techniques

## Year 8

Assessing impact of Computing concepts  
Exploring text-based programming language Python  
Essential programming concepts  
Algorithms & problem solving

## Year 7

Verbally explaining differences between hardware components & similarities

## Baseline test

Assessment to ascertain Computer Science content covered in Primary years. You will build on your knowledge and skills from previous years.

