

Computer Science



Exam Board: OCR

Lesson time: 9 Hours per fortnight

Independent study time: 9 Hours per fortnight



OCR

A Level

Computer Science | Assessment

1 | Computing Principles

- Written paper
- 2 hours and 30 minutes

• 40%

2 | Algorithms and problem solving

- Written paper
- 2 hours and 30 minutes

• 40%

3 | Programming project

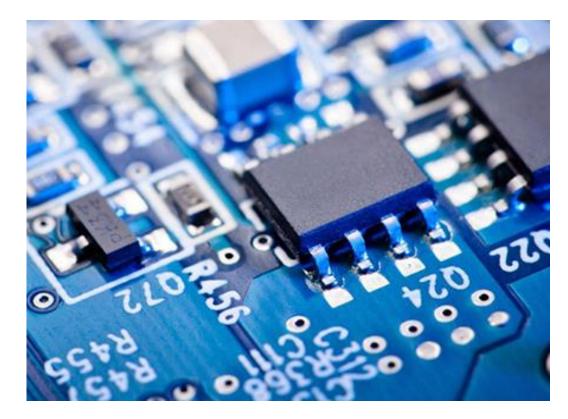
- Non-exam assessment
- 20%



Computer Science | Subject Content

1 | Computing Principles

- The characteristics of contemporary processors, input, output and storage devices
- Software and software development
- Exchanging data
- Data types, data structures and algorithms
- Legal, moral, ethical and cultural issues





Computer Science | Subject Content

- 2 | Algorithms and problem solving
- Elements of computational thinking
- Problem solving and programming
- Algorithms

4*L*²



Computer Science | Programming Project

Students complete a significant programming project in Year 13, which accounts for 20% of their final grade.

Project topics include:

- Computer games
- Mobile applications
- Desktop software applications
- Web-based platforms
- Database solutions

- Research project
- Simulation
- Data analysis software

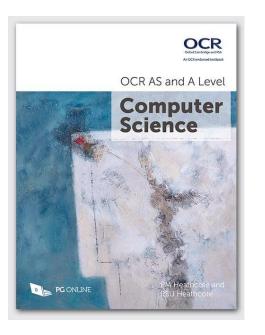


Computer Science | C#

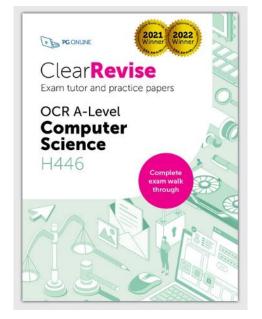
- As a .NET programming language, C# is similar to Visual Basic in many respects.
- It is a powerful language, widely used for developing desktop applications, video games, mobile apps, web applications.



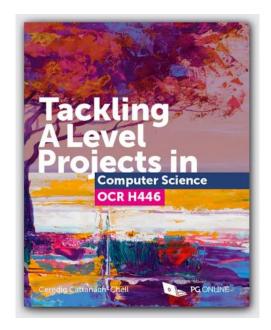
Computer Science | Textbooks



OCR AS and A Level Computer Science Textbook PM Heathcote and RSU Heathcote ISBN: 9781910523056



ClearRevise Exam Tutor OCR A Level H446 Exam tutor and practice papers ISBN: 9781910523407



Tackling A Level projects in Computer Science OCR H446 Ceredig Cattanach-Chell ISBN: 9781910523193



Computer Science | C# Warm-Up

- 1. Open Visual Studio
- 2. See if you can write a program that:
 - Generates a random number from 1 to 10 and stores it in a variable.
 - Prompts the user to guess what the number is.
 - Lets the user know if their guess was too high, too low or spot on.

If you're feeling brave, put your code into a while loop and give the user three guesses to get the number.