Wyggeston & Queen Elizabeth I College

Computer Science

Get ready for a successful start!

What will I study?	Students need to take the A Level Computer Science course before they go to university and study a computing-related subject. It teaches computing fundamentals, including how to write code using languages like C#, C++, Python or Java. Students learn how computers work, including hardware and software, and how data is stored and used. The course covers how computers connect and communicate over networks and internet security. It also looks at how to develop software from start to finish. In practical skills, students learn about the theory behind computing. This course prepares students for further studies or careers in computer science.
Who teaches this course?	Kordo Ahmed Richard Blackett Ingutu Palmer Muhammed Haveliwala
What resources or equipment will I need?	• Visual Studio • Visual Studio Code • C# Console Programming • GitHub • Zigzag • PG Online
Reading List	• https://www.mooict.com/ • https://isaaccomputerscience.org/topics/a_level?examBoard=all&stage=all#ocr • https://www.w3schools.com/cs/index.php • https://www.codewars.com/ • https://student.craigndave.org/ • https://student.craigndave.org/h046-h446 • https://adacomputerscience.org/ • https://www.physicsandmathstutor.com/computer-science-revision/a-level-ocr/ • https://www.savemyexams.com/a-level/computer-science/ • https://github.com/
How can I extend my learning?	Research your possible future careers after studying Computer Science using the Prospects website: https://www.prospects.ac.uk/careers-advice/what-can-i-do-with-my-degree/computer-science

Taster Activity: To be completed and brought to your first lesson

Resources needed to complete the activity:	Access to the internet
Estimated time to complete the activity:	1 hour

Task:

Programming task – may change.
Currency Converter

Required Knowledge: Data Types, String Concatenation

Create a currency converter program in C#. The program should convert from pounds to 5 other currencies and show the converted amount.

Requirements

- Ask the user for the original amount.
- Ask the user for which currency to convert to.
- Display the converted amount.

Provide evidence of the program with a screenshot of the program output and your code.

Typical Output below:
Please enter the original amount £: 55
Enter the currency to convert to: Press E-Euro, D-Dollars..... E
Converted Amount: 63.85

<u>EXTENSION</u>
Modify the program so that it asks the user to choose what currency to convert from and what currency to convert to.