

## Web Sites You May Wish To Visit

- **Code Project - for those who code**  
<http://www.codeproject.com>  
`webBrowser.Navigate("www.codeproject.com");`
- **Learn To Develop With Microsoft Developer Network**  
<http://msdn.microsoft.com>  
`HINTERNET oa = InternetOpenUrl(c, "msdn.microsoft.com");`
- **AQA A Level Computer Science**  
<https://goo.gl/mZp39X>  
`window.location.href = "https://goo.gl/mZp39X";`
- **Computer Science - University of Leicester**  
<http://le.ac.uk/courses/computer-science-mcomp>  
`Navigate -> le.ac.uk/courses/computer-science-mcomp`
- **Computer Science @ Loughborough University**  
<http://www.lboro.ac.uk/departments/compsci/>  
`f = u.urlopen("www.lboro.ac.uk/departments/compsci/", p)`
- **The National Museum for Computing**  
<http://www.tnmoc.org/>  
`<a href="www.tnmoc.org">National Museum for Computing</a>`
- **The Retro Computer Museum**  
<http://www.retrocomputermuseum.co.uk>  
`OpenURL("www.retrocomputermuseum.co.uk");`
- **Computing History - The UK Computing Museum**  
<http://www.computinghistory.org.uk/>  
`webbrowser.navigate "www.computinghistory.org.uk"`

### A Level Computer Science

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## A Level Computer Science

# SUMMER TASK 2018



## Making The Future Better

The most important aspect of computer science is problem solving, an essential skill for life. Students study the design, development and analysis of software and hardware used to solve problems in a variety of business, scientific and social contexts. Because computers solve problems to serve people, there is a significant human side to computer science as well.

For more details on the subject go to <https://goo.gl/thaPos>



*At MV16, the chosen programming language is C#.*

## Required Software

For homework you will require access to a Windows based computer. This could be in the form of a Windows PC, Windows emulator, or a virtual machine.



Microsoft Office 365 - available for free whilst registered at MV16.  
<https://products.office.com/en-GB/>



Microsoft Visual Studio 2017 - available for free.  
<https://www.visualstudio.com/downloads/>

This week and also over the summer you are expect to complete some homework!

### This Week

In the form of a flow chart, describe the sates that an elevator goes through if...

- (a) The elevator begins for floor 1.
- (b) Someone on floor 3 calls the lift, gets in and sends the lift to floor 2.

*Your answer should include the door state (open/closed), the current floor number, and the destination floor number.*

### Over The Summer

The C# programming language allows programmers to use various types of loops. Research and describe how (a) “for” and (b) “while” loops work. Your answer should contain no less than 500 words, and include code examples of each type of loop.

*You code examples can be in the form of (a) plain English, (b) flow chart, (c) pseudo code, (d) C#, or as a last resort (e) Python.*

### Extension

If you wish, also research and describe how the “foreach” loop works in C#.

*These QR codes might lead somewhere.....*

