

## Home Study & Independent Learning Parental Support Information

*This document is designed to support the parents to help their child, it is not intended to detail Assessment Criteria from a specification etc... It is simply an overview of content and the skills and resources that parents and students need to be successful in this year and subject.*

### Course information

#### Year: 13 Subject: Computer Science

<b>Subject</b>	A Level Computer Science	<b>Subject leader contact information</b>	Mr S Clawson sclawson@cottesloe.bu cks.sch.uk
<b>Examination Board</b>	IOCR	<b>Specification Code</b>	H446 - A Level Computer Science

#### Subject Content

*Computational thinking  
Software development  
Boolean Algebra  
Software project*

#### Additional Equipment Needed (Ingredients, headphones, PE kit, etc.)

*What else could parents/carers buy?*

*Laptop computer suitable for running coding environments such as MS Visual Studio*

#### Assessment Details:

This is **not** the specification.... Simply a **very brief overview** and then the more important... Assessment is via an external exam, looking at the principles of computer systems. This is a two hour paper, involving scenario based questions.

In addition to the exam the students will complete a practical unit covering the implementation of system security on a server and client.

#### **To be successful students will need to be able to:**

- *Think creatively to find the best solution to a given problem*
- *Show resilience when working with code that may not always work first time*
- *Be prepared to experiment with a number of ideas before selecting the best*
- *Enjoy the challenge of creating computer code - Want to stretch this to include several programming languages*
- *Be curious and adventurous when looking at how a computer could be used to solve problems*
- *Be reflective and evaluative - Be able to critique their own and other's work in a constructive way*
- *Be able to analyse a range of concepts and determine the best course of action given a range of options.*

### What can I do to support my child at home?

#### ***Specific advice for parents... what can they do to help us?***

- *Keep abreast of technology news - we will often discuss this in the class.*
- *Assist with proof reading of coursework - Students are encouraged to self assess before hand in*

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- Encourage coding and experimentation with code at home - Help to identify suitable problems to solve with a computer
- Consider providing ideas for a programming project
- Provide access to the internet to help with homework
- Consider having access to a BBC Microbit, Raspberry Pi or other low cost programmable computer to help provide access to different coding projects

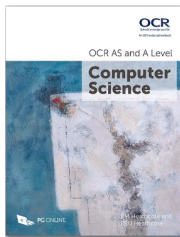
### Recommended resources for the course:

What can the parents purchase/find to help their child?

**Websites:**

<https://www.ocr.org.uk/qualifications/as-and-a-level/computer-science-h046-h446-from-2015/>

**Websites;** <https://www.computingschool.org.uk/>,



**Books:**

OCR AS and A Level Computer Science Textbook

PM Heathcote and RSU Heathcote

ISBN: 978-1-910523-05-6

**Apps:** *If you know of any that are useful*

#### Teaching Staff Contact Details

Name	Role	Email	Tel
Simon Clawson	Curriculum Leader	sclawson@cottesloe.bucks.sch.uk	
Graham Long	Computer Science teacher	glong@cottesloe.bucks.sch.uk	

**Additional Information:**

*Is there anything that you think that is important that hasn't been covered?*