



# Computer Science

Please complete one line from the task list below. All students must complete the middle task:

<p>Design and create a computer program that keeps records of events and achievements for each year group and issues awards to the most successful of the school's 'Colleges'.</p>	<p>Create a video presentation to describe what is meant by the term 'inheritance' in programming.</p>	<p>"It is possible to use computational methods as a way of predicting the success of an app"</p> <p>Discuss the extent to which you agree with this statement.</p> <p><u>500 words</u></p>
<p>Produce a publication which explains how three different sorting algorithms would work.</p>	<p>Create an e-portfolio structure using Microsoft Sway to store files relating to the three components of this course</p>	<p>Produce a flowchart &amp; pseudocode for a program that converts denary numbers into both binary and hexadecimal.</p>
<p>A fitness company wants users to be able to register on its website. Users will provide details such as their weight, height, any allergies and pre-existing medical conditions. Discuss the legal and ethical issues the company needs to consider for such a system.</p> <p><u>500 words</u></p>	<p>Create a podcast to compare two software development models: Waterfall and RAD/agile.</p>	<p>Design and create a hotel booking system that will allow users to book specific rooms e.g. twin/double. The program should store the data and not allow users to "double book".</p>

## Suggested book/reading list:

- Heathcote, P. and Heathcote, R. (2016) *OCR AS and A Level Computer Science (PG Online)*