

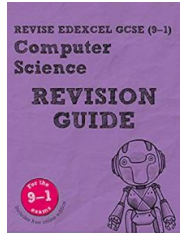


## Computer Science GCSE

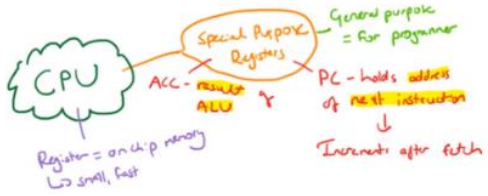


Exam Board: <b>EDEXCEL</b>	<b>2 papers 50% each</b>
	<b>1:</b> Principles of Computer Science <b>2:</b> Application of Computational Thinking (scenario based)
<a href="https://qualifications.pearson.com/en/support/support-topics/exams/past-papers.html">https://qualifications.pearson.com/en/support/support-topics/exams/past-papers.html</a>	

### Topics students are examined on:

	Programming Project
<ul style="list-style-type: none"> <li><b>Topic 1: Problem solving</b> Students are expected to develop a set of computational thinking skills that enable them to understand how computer systems work, and to design, implement and analyse algorithms for solving problems</li> <li><b>Topic 2: Programming</b> Students should be competent at designing, reading, writing and debugging programs</li> <li><b>Topic 3: Data</b> Students are expected to know how different types of data are represented in a computer</li> <li><b>Topic 4: Computers</b> Students must be familiar with the hardware and software components that make up a computer system and recognise that computers take many forms from embedded microprocessors to distributed clouds</li> <li><b>Topic 5: Communication and the internet</b> Students should understand the key principles behind the organisation of computer networks</li> <li><b>Topic 6: The bigger picture</b> Students should be aware of the influence of computing technology and recognise that computing has an impact on nearly every aspect of the world in which they live</li> </ul>	<p>The GCSE in Computer Science requires each student to undertake a programming project, where they will develop a computer program. The project is not assessed and does not contribute towards the final grade but needs to be completed in class under controlled conditions</p> <p><b>Useful websites for revision:</b></p> <ul style="list-style-type: none"> <li><a href="http://www.bbc.com/bitesize/subjects/z34k7ty">www.bbc.com/bitesize/subjects/z34k7ty</a></li> <li>A range of videos can be viewed at: <a href="https://student.craigndave.org/gcse-videos">https://student.craigndave.org/gcse-videos</a> These are aimed at the OCR syllabus but are still very relevant and cover the majority of the topics studied for the Edexcel course</li> </ul> <p>All students have a copy of: Revise Edexcel GCSE (9-1) <b>Computer Science Revision Guide</b></p> <p>All students have access to their OneNote exercise book and revision resources – this is accessed by logging into <a href="https://obhs.sharepoint.com">obhs.sharepoint.com</a></p> 

### Suggested revision activities to help your child prepare for the Computer Science exam:

<ul style="list-style-type: none"> <li>Encourage your son/daughter to create <b>flash cards</b>, trying to overlap resources from the revision guides, online videos and their OneNote class pages</li> <li>Encourage them to write their <b>own</b> revision notes. They should aim to <i>rewrite</i> text and notes, then try to process and understand them</li> </ul>	
<ul style="list-style-type: none"> <li>Practise <b>past papers</b> and work through the <b>knowledge organiser tasks</b> in their OneNote exercise book</li> </ul>	
<ul style="list-style-type: none"> <li>Encourage them to revisit their <b>DIRT</b> analysis pages in their OneNote exercise book. These will highlight the areas of weaknesses from previous tests/mock exams. Your son/daughter should aim to revise the topics they found difficult and not just to re-revise the content they are more comfortable with</li> </ul>	
<ul style="list-style-type: none"> <li>Practise <b>coding</b> and more coding. All students have access to a range of coding websites, including <a href="https://snakify.org/en/">https://snakify.org/en/</a> - this will help with the content of Paper 2</li> </ul>	
<ul style="list-style-type: none"> <li>Create a <b>glossary of terms</b> - encourage your son/daughter to revisit their OneNote exercise book and to collate the key terms gathered in Year 10 and 11 - this will provide a valuable revision resource which can be shared and tested regularly at home</li> </ul>	
<ul style="list-style-type: none"> <li>Encourage your son/daughter to take regular breaks from their revision – some useful strategies can be found at <a href="http://www.cambridgeacademicperformance.co.uk/2015/04/02/how-to-use-revision-breaks-effectively/">www.cambridgeacademicperformance.co.uk/2015/04/02/how-to-use-revision-breaks-effectively/</a> and <a href="http://www.oxfordhomeschooling.co.uk/revision-techniques/when-should-i-take-breaks/">www.oxfordhomeschooling.co.uk/revision-techniques/when-should-i-take-breaks/</a></li> </ul>	