Ellesmere Park High School
Enriching Lives, Inspiring Ambitions

COMPUTER SCIENCE GCSE- MAXIMISE 2024- STUDENT STUDY SUPPORT

OCR GCSE (9-1)	Link to download specification
Computer Science	https://bit.ly/2VRbzMF

Unit:	Exam content
PAPER 1 **J277/01: Computer systems** 1hr 30 mins exam 50% of total GCSE 80 marks Exam - May	**This component will assess:** • **1.1 Systems architecture** – All about the components that make up digital devices • **1.2 Memory and storage** – All about the memory used to store data • **1.3 Computer networks, connections and protocols** – learning about the different types of networks and how data is transmitted • **1.4 Network security –** All about the threats facing data and how to prevent against them • **1.5 Systems software –** Learning about the software used to control and communicate with computers • **1.6 Ethical, legal, cultural and environmental impacts of digital technology –** Exploring the issues facing use of modern computers and the impacts on the wider world
PAPER 2 **J277/02: Computational thinking, algorithms and programming** 1hr 30 mins exam 50% of total GCSE 80 marks Exam - May	**This component will assess:** • 2.1 **Algorithms** – Learning about computational thinking and how we create solutions to problems • **2.2 Programming fundamentals** – learning the basics of programming including variables and program flow • **2.3 Producing robust programs –** Learning how to ensure the safe and proper use of software and programs • **2.4 Boolean logic –** exploring the use of logic gates and application to programming • **2.5 Programming languages and Integrated Development Environments –** Looking at high and low level language, translators and the software tools to make our jobs easier when creating programs

Parents/Carers - How Can You Help?

Ensure your child begins to regularly revise the content that we have already covered. We have covered the whole course content at least once already and are just tackling misconceptions and working on retrieval.

Ensure your child completes all weekly SMART revise homework questions which provide a useful method of retrieval. The expectation is that they complete 20 questions per week. This will be checked and anyone who is off track will be asked to come at lunch to complete the homework.
Assessments in Computer Science take place regularly in the classroom and the mock exam dates for Year 11 are November and March.

Anyone struggling or needing any support is welcome anytime after school for intense and focused support.

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Good websites to use for revision include: BBC Bitesize, Seneca, Isaac computer science and the SMART revise app.
There is no coursework component for Computer Science. Students will be awarded a 1-9 grade, based on 100% exam content.

Useful revision strategies:
Mind maps
Revision cards
Practicing programming
SMART revise
Knowledge Organisers

There are copies of GCSE exam papers and samples on OCR website.

The most suitable revision guide that has already been supplied to the students. It is the CGP GCSE 9-1 OCR Computer Science revision guide.

All the subject content is available on Youtube if you search Mr Weir Computer science.

All keywords and definitions available on Knoword.com and studyshack.com (search J277 Computer science)

Online Revision Tools/In school support	
Catch Up Any day after school	
Exam board – course home page	**https://shorturl.at/VFHAf**
Full playlist of all exam content	**https://shorturl.at/Dg6sQ**

Any issues regarding Computer Science please contact us on: jonathan.weir@consilium-at.com