

# GCSE Computer Science: Exam Board: OCR

## GCSE Exam Structure

The only change to the GCSE in Computer Science is that the Programming Project can now be completed beyond the classroom. The project still remains in place and is a requirement of the specification. There are 2 examinations in the summer, each of equal 50% weighting:

### Paper 1: Computer Systems

Taught in Year 11

- Systems Architecture
- Memory
- Storage
- Wired and wireless networks
- Network topologies, protocols and layers
- System security
- \*System software
- Ethical, legal, cultural and environmental concerns

### Paper 2: Computational thinking, algorithms and programming

Taught in Year 10

- Algorithms\*
- Programming techniques
- Producing robust programs
- Computational logic
- Translators and facilities of languages
- Data representation

\* Algorithm questions are not exclusive to Component 02 and can be assessed in either component

\*Systems Software was part of the course that was delivered during the lockdown period from March – July 2020

The programming project is a requirement of the qualification and it consolidates the learning across the specification through practical activity. This was issued to pupils in Year 10 and materials have also been uploaded to Teams for pupils to access to support them completing this task. We will be revisiting the programming project following the mock examinations in class and weekly tasks will be set for pupils to complete in relation to this.

### Programming Project

- Programming techniques
- Analysis
- Design
- Development
- Testing and evaluation and conclusions

## December Mock Exam Structure (30<sup>th</sup> November – 11<sup>th</sup> December)

### Paper 2

1 hour 30 minutes: Please see Paper 2 above for details

## March Mock Exam Structure

The paper not studied in the December mocks Business Paper 1 will be examined at the second assessment point in March. The March assessment will cover content taught from September 2020

## Being Organised

Every pupil has been issued with pocket revision posters and a revision booklet which they will be provided with during the revision sessions beginning on Wednesday 14<sup>th</sup> October. There are two booklets, one for each paper. Pupils have exercise books and folders and they will also be provided with a folder to keep their revision materials in from the revision sessions.

## Plan: Remaining Teaching Weeks to Mock Exams

Week Beginning	Lesson Content	Revision Material	Curriculum Recovery	Homework	Revision Class
12 <sup>th</sup> October	Network topologies, protocols and layers	Revision booklet and exam questions	All of the work that was completed during lockdown is available via Teams and on the school website. At the start of each lesson we revisit key questions from previous topics.	Exam questions	Wednesday 14 <sup>th</sup> October
19 <sup>th</sup> October	Network topologies, protocols and layers			Exam questions	
Half Term Homework	Pupils are to complete the practice paper to be submitted in the first lesson after half-term				
2 <sup>nd</sup> November	Wired & wireless networks	Revision booklet and exam questions		Exam questions	Wednesday 4 <sup>th</sup> November
9 <sup>th</sup> November	Wired & wireless networks			Exam questions	
16 <sup>th</sup> November	Algorithms - Pseudocode		Paper 2 – We will be revisiting how to produce algorithms using pseudocode and flow diagrams	Exam questions	Wednesday 18 <sup>th</sup> November
23 <sup>rd</sup> November	Algorithms – Pseudocode			Exam questions	

## Plan: January to Summer Exams

Half-term	Lesson Content	Revision Material	Curriculum Recovery	Homework	Revision Class
January to February	System security and <b>system software</b>	Revision booklet and exam questions	Paper 1 – Systems Software and the Programming Project – Dice Game	Exam questions	These will be developed based on feedback after the mock examinations.
February to April	Ethical, legal, cultural and environmental concerns	Revision booklet and exam questions	Programming Project – Dice Game	Exam questions	
April to May	Revision of paper 1 and paper 2	Revision booklet and exam questions		Exam questions	

\*we will be revisiting content that was delivered via Teams during lockdown during these lessons.

## Exam Board Guidance

[Exam Board Specification](#). Pages 10-17 give an overview of each paper

**Past Papers** - [Paper 1 June 2018](#) & [Paper 2 June 2018](#) & [Sample Assessment Material Paper 1 & Paper 2](#)

## Other Online Material

[Teach-ICT](#) & [BBC Bitesize](#) & [Craig and Dave YouTube Channel](#)