## Year 10 Computer Science Revision Timetable Mock Exams

We will be asking you to revise different topics each week using weekly revision activities via a Showbie class to be completed as homework and during revision lessons. (Ask your teacher for the class code)

## Exams

You will have two mock exams.

1 hour 30 min Paper 1 Principles of Computer Science (Written exam)

1 hour Paper 2 Application of Computational Thinking (onscreen assessment)

## **Revision Techniques:**

- Quizlet https://quizlet.com/join/NjTer8TpC
- Use CSUK Revise <u>https://revisecs.csuk.io/</u>
- Videos on YouTube Search GCSE Edexcel Computer Science and "Craig n Dave". Videos on all the topics.
- BBC Bitesize Make sure you search Computer Science and enter the Exam Board as Edexcel
- Seneca Learning Log in and review all the Information about the Topic, take the tests and check on the assignments.
- Practice coding on Trinket (Class code: https://trinket.io/courses/join/WdNAam)

## GCSE Edexcel Computer Science Revision Schedule

Date	Торіс	Revised & Tested?
Week 1 19 <sup>th</sup> Feb	Topic 3: Computers         Stored program concept         Fetch-decode-execute cycle         Main memory (RAM)         CPU (control unit, arithmetic logic unit, registers)         Clock speed         Pipelining         Buses - address bus, data bus, control bus	
Week 2 26 <sup>th</sup> Feb	Topic 3: Computers         Secondary storage and the ways in which data is stored on devices:         magnetic         optical         solid state         Embedded system and what embedded systems are used for	
Week 3 4 <sup>th</sup> March	<ul> <li>Topic 1 Computational Thinking</li> <li>Programming constructs</li> <li>Variables, constants, global and local and data types</li> <li>Benefits of using subprograms</li> </ul>	
Week 4 11 <sup>th</sup> March	Topic 2 Data         Unsigned integers         Two's complement signed integers	

	Convert between denary and 8-bit binary numbers (0 to	
	255, -128 to +127)	
	Hexadecimal and binary conversions	
Week 5	Topic 2 Data	
18 <sup>th</sup> March	Computers encode characters using 7-bit ASCII	
	Bitmap images are represented in binary (pixels,	
	resolution, colour depth)	
	Analogue sound is represented in bingry (amplitude.	
	sample rate bit depth sample interval)	
	Limitations of binary representation of data when	
	constrained by the number of available bits	
	Data storage	
	Data storage is measured in binary multiples	
	- bit	
	- nibble	
	- byte	
	- kibibyte	
	- mebibyte	
	- aibibyte	
	- tebibyte	
	$\Box$ construct expressions to calculate file sizes and data	
	capacity requirements	
	Compression	
	Data compression and methods of compressing data	
	IOSSY	
Week 6	I OPIC I Computational fininking	
25th March		
Easter Hols	aspects of the real world and analyse, understand and	
	solve problems	
	Flow charts	
Week 7 1 <sup>st</sup> April	Programming exam practice on Trinket	
Easter Hols	Revisit weekly revision tasks	
Week 8	Mock Exam Paper 1	
8 <sup>th</sup> April		
Week 9	Mock Exam Paper 2	
15 <sup>th</sup> April		