



Subject		Computer Science		
Title/Topic		Format	Length	Date & Lesson
Paper 1 – Data and Programming Theory		Written Paper	45 minutes	Fri 17 March Period 3
Paper 2 – Programming and Problem Solving		Written Paper	45 minutes	Mon 20 March Period 1

This assessment will test my knowledge on...

Paper 1

- How binary can be used to store-
 - Numbers
 - Text
 - Images
 - Sound
- Converting Binary to Denary, Denary to binary
- Converting Denary to Binary to Hexadecimal
- Adding binary numbers
- The effects of shifting binary numbers
- How text is represented using ASCII and Unicode and the differences between these character sets
- How characters are stored
- What are the main properties of an image
- How are images stored on a computer
- How is the file size calculated for an image
- How is sound converted from analogue to digital
- What factors affect sound quality and file size?
- How can file sizes be reduced?
- What are the main methods of compression



Paper 2

- Variables and datatypes
- Creating variables in a program and assigning/changing values
- Reading inputs from a user
- Using casting functions
- Using selection statements (IF, ELIF, ELSE)
- Using FOR and WHILE loops
- Storing data in or accessing data in a list
- Looping through letters in a string or items in a list
- Writing a function to perform a particular task
- Finding and fixing errors in existing code
- Completing partially finished programs

What should I do to revise and prepare for this assessment?

To prepare for this assessment:

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1. Watch the GCSE Pod videos for the topics above that you feel least confident about
2. Make notes about the key points highlighted in the video.
3. Re-read sections of your homework booklet (thick booklets for Paper 1 and 2)
4. Complete the practice questions from the revision packs handed out in class.
5. Ask Mr Jackson for additional help and advice if you are struggling with any topics

What useful websites/resources could I use to help me prepare?

GCSEPod
Youtube (CraignDave Channel)
Isaac Computer Science