



Subject	Computer Science - Year 9		
Title/Topic	Format	Length	WC
Year 9 EOY Assessment – All units	On-screen MCQ, short answer and coding	45 mins	

In this Advent assessment I will be asked to show I can...

From Unit 9.3 - Python Programming

- Control the turtle in Python using basic commands `fd()`, `bk()`, `rt()` and `lt()`.
- Use variables in a program to store data
- Read pre-written programs and predict what they do
- State the purpose of loops in a program
- Understand how FOR loops operate in a program
- Understand how WHILE loops operate in a program
- Use `print` and `input` commands to interact with the user.
- Combine different techniques together to solve a problem
- Answer questions about example code
- Complete programs by filling in gaps

From Unit 9.1 Networks...

- Describe the main types of network – LAN and WAN
- Describe the two topologies – Star and Mesh
- Explain the benefits and drawbacks of making networks
- Describe the purpose of a **router** in a network
- Describe the purpose of a **switch** in a network
- Describe the purpose of a **WAP** in a network
- Describe the role of the ISP?
- Explain how IP addresses are used to identify devices



- Describe the main protocols used online – HTTP/HTTPS, IMAP, SMTP, FTP, TCP/IP

From Unit 9.2 HTML and Webpages...

- What is HTML?
- What are the main tags used in HTML pages?
- Tags that define the structure of a page-
 - `<html> <head> <body>`
- Tags that are used to change the way the information is displayed-
 - ` <i> <u>`
 - `<body bgcolor="red">`
 - `<div>`
 - ``
- Tags that are used to add other features-
 - ``
 - ` click this `
- What is CSS and why is it used?
- How to apply CSS rules to parts of a webpage
- What is Javascript used for?
- Understanding what some simple Javascript code would do on the page

From last year...

Hardware and Software

- Describe the main parts of a computer
- Describe the purpose of RAM, CPU and HDD/SSD
- Identify common input and output devices
- Describe the purpose of software such as the operating system, word processors and web-browsers

Binary Data

- Convert 8-bit binary numbers into denary (normal decimal) numbers



- Convert denary numbers into 8-bit binary numbers
- Add binary numbers together
- Convert binary numbers into hexadecimal
- Describe how bitmap images use binary to store a picture
- Describe key features of images including pixels, resolution and colour depth
- Calculate file sizes of images based on their properties – width, height and colour depth

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



To prepare for this assessment:

1. Carry out the revision activity set by your teacher on Satchel
2. Read through your booklets available on our Onedrive.
3. Use look, cover, check using the knowledge organisers each.

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

You can access all the resources for each unit on the OneDrive

Homework activities are set on Satchel

Where can I access specific revision resources

(If you wish you can place a link to a One-Drive folder containing revision resources for the Year 9 End of Year assessment)