

YEAR 9 – COMPUTER SCIENCE

TERM 2 - WEEK 4 (21st February to 25th February)

COMPUTER SCIENCE - THEORY

Class/ Division	Year 9 A-F
Work sent to the students via	Google Classroom
Total number of lessons per week	2
Lesson 1 Learning objective Resources	Chapter 13 : Data representation (Zoom live session) To be able to understand <ul style="list-style-type: none">• how bitmap images are represented in binary (Image size and resolution)• Encoding the pixel information• Calculating the file size for bitmap image Pearson Edexcel International GCSE(9-1) Computer Science Book PowerPoint presentation Resource video links: <ul style="list-style-type: none">• https://www.youtube.com/watch?v=TJBRRLt-L7o• https://www.youtube.com/watch?v=2fFi2w2-qxg• https://www.youtube.com/watch?v=oXeu7SVXdio
Lesson 2 Learning objective Resources Task	Chapter 13 : Data representation (Google Classroom) To be able to understand <ul style="list-style-type: none">• how bitmap images are represented in binary (Image size and resolution)• Encoding the pixel information• Calculating the file size for bitmap image Pearson Edexcel International GCSE(9-1) Computer Science Book PowerPoint presentation Resource video links: <ul style="list-style-type: none">• https://www.youtube.com/watch?v=TJBRRLt-L7o• https://www.youtube.com/watch?v=2fFi2w2-qxg• https://www.youtube.com/watch?v=oXeu7SVXdio Activity questions will be posted in Google classroom

TERM 2 - WEEK 4 (21st February to 25th February)**COMPUTER SCIENCE - PRACTICAL**

Class/ Division	Year 9 A-F
Work sent to the students via	Google Classroom
Total number of lessons per week	2
Lesson 1	Python Programming (Zoom live session)
Learning objective	To be able to <ul style="list-style-type: none">• use techniques to improve the readability of code• describe what a string is and explain what strings are used for• use iteration to traverse a string• Finding a character with particular index
Resources	Pearson Edexcel International GCSE(9-1) Computer Science Book PowerPoint presentation PowerPoint presentation Resource video links: <ul style="list-style-type: none">• https://www.youtube.com/watch?v=Ctqi5Y4X-jA• https://www.youtube.com/watch?v=mK1sZrPNAhM• https://www.youtube.com/watch?v=ISItwlnF0eU
Lesson 2	Python Programming (Zoom live session)
Learning objective	To be able to understand the ways to manipulate strings <ul style="list-style-type: none">• Changing characters to lower case/upper case• Extracting characters from a string• Checking a phrase in the string• Concatenation of strings
Resources	Pearson Edexcel International GCSE(9-1) Computer Science Book PowerPoint presentation PowerPoint presentation Resource video links: <ul style="list-style-type: none">• https://www.youtube.com/watch?v=Ctqi5Y4X-jA• https://www.youtube.com/watch?v=mK1sZrPNAhM• https://www.youtube.com/watch?v=ISItwlnF0eU
Task	Activity questions will be posted in Google Classroom