

# Getting ready for Year 10 COMPUTER SCIENCE



ASCII Code - Character to Binary

0	0011 0000	i	0100 1001	h	0110 0010	v	0111 0110
1	0011 0001	j	0100 1010	c	0110 0011	w	0111 0111
2	0011 0010	k	0100 1011	d	0110 0100	x	0111 1000
3	0011 0011	l	0100 1100	e	0110 0101	y	0111 1001
4	0011 0100	m	0100 1101	f	0110 0110	z	0111 1010
5	0011 0101	n	0100 1110	g	0110 0111		
6	0011 0110	o	0100 1111	h	0110 1000	1	0011 1011
7	0011 0111	p	0101 0000	i	0110 1001	2	0011 1011
8	0011 1000	q	0101 0001	j	0110 1010	3	0011 1111
9	0011 1001	r	0101 0010	k	0110 1011	4	0010 1110
		s	0101 0011	l	0110 1100	5	0010 1111
A	0100 0001	t	0101 0100	m	0110 1101	6	0010 1111

memory  
registers  
media  
trojans  
ethical  
transmission  
central  
hexadecimal  
network  
anti-malware  
compression  
storage  
viruses  
secondary  
image  
protection  
networks  
lossy  
wide  
binary  
unit  
files  
area  
sound  
random  
switch  
cultural  
impacts  
lossless  
processing  
data  
firewall  
access  
architecture  
threats  
server  
local  
worms  
systems  
computer  
data  
processing  
lossless



# Getting ready for Year 10 Computer Science

**To do;**

**Over the summer you need to complete the following 3 Tasks and email them to Mr Rose.**

**You can complete these tasks on paper and screenshot, you can complete on iPad and send, you can complete on a computer and send.**



[nrose@dma.tela.org.uk](mailto:nrose@dma.tela.org.uk)

# Task 1- Inside the Computer

□ You have been asked to fix your neighbour's computer. You need to look inside and identify the components so you can tell them what the problem might be. You will create a poster to outline the key internal components and explanations of their purposes.



□ YOU MUST INCLUDE:

Images and explanations of Motherboard, CPU, RAM, ROM, Graphics Card, Hard Drive/SSD.

Use [www.teach-ict.com](http://www.teach-ict.com) to help



# Task 2 – I don't speak English just ASCII!

❑ YOU NEED TO CRACK THIS MESSAGE BY CONVERTING FROM ASCII CODE TO ENGLISH.

❑ IT IS A 4 WORD SENTENCE – HINT USE AN ASCII TABLE:

67 111 109 112 117 116 101 114 32 83 99 105 101 110 99 101 32 105 115 32  
71 114 101 97 116 33

# Task 3 – “Facial recognition used by police to monitor Downham Market - Market Place by 2024”. Good or bad?



TASK: you have been asked to give your expert opinion on the use of facial recognition by the police.

YOU MUST Explain 3 reasons why this would be good for the public and 3 reasons why it might be bad for the local community.

Carry out some internet research to help with your arguments for or against.