Year 8 – Computer Systems

	Key Words			
A Computer Network	A collection of computer systems connected together to communicate with each other by exchanging data.			
Binary	A base 2 number system that only uses 0 or 1 digits			
Local Area Network (LAN)	Computers connected together over a small area e.g. a small company or home			
Wide Area Network (WAN)	Computers connected over a larger area such as a multinational company			
Software	A collection of computer instructions that tell the computer how to work			
Hardware	The physical parts of the computer			
Pseudo Code	A way of writing instructions but not in a given code format			
Encryption	Converting plain text into cipher text so that others cannot read it.			

Binary – It uses Base 2

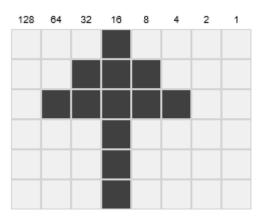
32	16	8	4	2	1
		1	1	0	1

Adding Binary

16	8	4	2	1		
0	1	0	0	1	=	9
0	0	1	1	1	=	7
1	0	0	0	0		16
1	1	1	1			

You need to carry if the column adds up to 2

Pictures in Binary



Row 1 – 10000

Row 2 – 111000 Row 3 – 1111100

Row 4 – 10000

Row 5 – 10000

Row 6 - 10000