

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

So $1101 = 8+4+1 = 13$

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