

	KEY VOCABULARY	EXAMPLES																
Computer System	Made up of hardware and software that work together to process data.																	
Hardware	The physical parts of the computer system - the parts you can touch.																	
Software	The programs or apps that can be run on a computer system .																	
Peripheral	External hardware connected to a computer.																	
Input Device	A peripheral used to transfer data from the outside world into a computer system.																	
Output Device	A peripheral used to transfer data out of a computer system.																	
Storage Device	An item of hardware on which data is stored.																	
Cloud	The use of the Internet to store files.																	
Binary	A counting system using base-2 consisting of 0s and 1s.	<table border="1"> <tr><th>128</th><th>64</th><th>32</th><th>16</th><th>8</th><th>4</th><th>2</th><th>1</th></tr> <tr><td>0</td><td>1</td><td>1</td><td>0</td><td>1</td><td>0</td><td>1</td><td>1</td></tr> </table>	128	64	32	16	8	4	2	1	0	1	1	0	1	0	1	1
128	64	32	16	8	4	2	1											
0	1	1	0	1	0	1	1											
Denary	A number system using base-10. Also known as decimal - our every day number system.	<table border="1"> <tr><th>1000</th><th>100</th><th>10</th><th>1</th></tr> <tr><td>3</td><td>4</td><td>9</td><td>7</td></tr> </table>	1000	100	10	1	3	4	9	7								
1000	100	10	1															
3	4	9	7															

DENARY → BINARY CONVERSION

Convert the denary value 200 into 8 bit binary.

128	64	32	16	8	4	2	1	200
1	1	0	0	1	0	0	0	72
								8
								0

Start ↑

BINARY → DENARY CONVERSION

Convert the 8 bit binary value 10110001 into denary.

128	64	32	16	8	4	2	1
1	0	1	1	0	0	0	1
128 + 32 + 16 + 1 = 177							

ADDING 2 BINARY NUMBERS TOGETHER

Rules
0 + 0 = 0
0 + 1 = 1
1 + 1 = 0 carry 1
1 + 1 + 1 = 1 carry 1

1	0	1	1	0	0	0	1
0	0	1	1	1	1	0	0
1	1	1	0	1	1	0	1
	1	1					

Start ↑

Key Objectives

Identify a number of input, output and storage devices.	
Describe the difference between hardware and software.	
Describe the units of storage from a bit to a megabyte.	
Be able to convert denary numbers into binary numbers.	
Be able to convert binary numbers into denary numbers.	
Be able to add up two binary numbers together.	

