Information revolution: how ultra-short bursts of light can help us improve data storage

Introducing binary numbers

Writing numbers using the binary system can seem tricky, but can end up being lots of fun. The binary system works based on exponential multiples of two, for example, 2^0, 2^1, and 2^2. By adding combinations of these exponential multiples of two, you can create any number.

Try writing these binary numbers yourselves:

Decimal number	Conversion to binary							Binary number
	$2^6 = 64$	$2^5 = 32$	$2^4 = 16$	$2^3 = 8$	$2^2 = 4$	$2^1 = 2$	$2^0 = 1$	
1	0	0	0	0	0	0	1	1
2	0	0	0	0	0	1	0	10
3	0	0	0	0	0	1	1	11
10	0	0	0	1	0	1	0	1010
33	0	1	0	0	0	0	1	100001
Try the following ones yourself								
15								
19								
75								