

















Symbols:0, 1,, 90, 1like decimal, ex that the base isBase102Number xyz $x \cdot 10^2 + y \cdot 10^1 + z \cdot 10^0$ $x \cdot 2^2 + y \cdot 2^1 + z \cdot 2^0$ Ex:101 $1 \cdot 10^2 + 0 \cdot 10^1 + 1 \cdot 10^0$ $1 \cdot 2^2 + 0 \cdot 2^1 + 1 \cdot 2^0$ Place Value1015Powers1, 10, 100, 1000,1, 2, 4, 8, 16, 32, 64, \checkmark What binary numbers are: 1000_2 , 1010_2 and 1111_2 Use a subscript to indicate the number 2^3	*	Decimal	Binary	Binary works just	
Base 10 2 Number xyz $x \cdot 10^2 + y \cdot 10^1 + z \cdot 10^0 x \cdot 2^2 + y \cdot 2^1 + z \cdot 2^0$ Ex: 101 $1 \cdot 10^2 + 0 \cdot 10^1 + 1 \cdot 10^0 1 \cdot 2^2 + 0 \cdot 2^1 + 1 \cdot 2^0$ Place Value 101 5 Powers 1, 10, 100, 1000, 1, 2, 4, 8, 16, 32, 64, \Rightarrow What binary numbers are: 1000 ₂ , 1010 ₂ and 1111 ₂ Use a subscript to 2 ³ 2 ³ 2 ²	Symbols:	0, 1,, 9	0, 1	like decimal, except	
Ex: 101 $1 \cdot 10^2 + 0 \cdot 10^1 + 1 \cdot 10^0$ $1 \cdot 2^2 + 0 \cdot 2^1 + 1 \cdot 2^0$ Place Value 101 5 Powers 1, 10, 100, 1000, 1, 2, 4, 8, 16, 32, 64, What binary numbers are: 1000 ₂ , 1010 ₂ and 1111 ₂ Use a subscript to indicate the number 2^3	Base	10	2	that the base is 2	
Place Value 101 5 Powers 1, 10, 100, 1000, 1, 2, 4, 8, 16, 32, 64, What binary numbers are: 1000_2 , 1010_2 and 1111_2 Use a subscript to indicate the number 2^3	Number xyz	x·10 ² +y·10 ¹ +z·10 ⁰	x·2²+y·	2 ¹ +z·2 ⁰	
Powers 1, 10, 100, 1000, 1, 2, 4, 8, 16, 32, 64, What binary numbers are: 1000_2 , 1010_2 and 1111_2 Use a subscript to indicate the number 2^3	Ex: 101	1.10 ² +0.10 ¹ +1.10 ⁰	1.2 ² +0.	2 ¹ +1·2 ⁰	
• What binary numbers are: 1000_2 , 1010_2 and 1111_2 Use a subscript to indicate the number 2^2	Place Value	101	5		
Use a subscript to indicate the number 2^3	Powers	1, 10, 100, 1000,	1, 2, 4,	8, 16, 32, 64,	
Use a subscript to 2 ²	What bina	ry numbers are: 100	0 ₂ , 1010	D₂ and 1111₂	
base, e.g $5_{10} = 101_2$ 2^1	indicate the nu	$\begin{array}{ccc} \text{ot to} & 2^2 \\ \text{umber} & 2^2 \\ = 101_2 & 2^1 \end{array}$			



