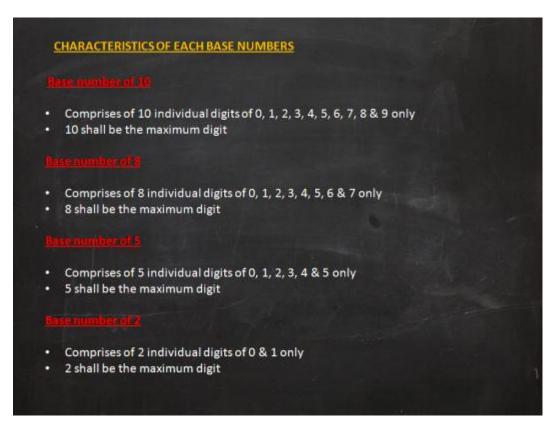
CHAPTER 1: NUMBER BASES

The whole numbers that we used in daily life is actually from the number base 10. It is derived from 10 different digits which is 0,1,2,3,4,5,6,7,8,9.

BASE NUMBER OF 10 IN OUR DAILY USE 1794 321 + 2227 -123 4021 198 The sum of 4 + 7 = 11; and since 11 is exceeding 10, then 11 shall be deducted by 10 and the answer of 1 shall be written and 1 to be added to the sum of the other numbers on the left. The similar process shall take place on the following addition. Under this circumstances, it is proven that all of the numbers used are in fact of the · If we study the process of subtraction as shown on the top right side of this diagram, it is obvious that 3 cannot be deducted from 1 and as such it needs to borrow 1 from 2(the number on the left side of 1). Though 1 is taken from 2, its value is in fact 10 and when added to 1 will gives us 11. This also proves that the numbers used are in fact of the · The same justification can be obtained when ones study the concept of multiplication

Below is the characteristic of each base number:



Below shows how to convert numbers from one base to another base:

