

Who are we ?		
Sam KusnerKate HalushkaKarl Simon		
 Ruining Yang 		
 Lauren Hahn Jonathan Lee 		

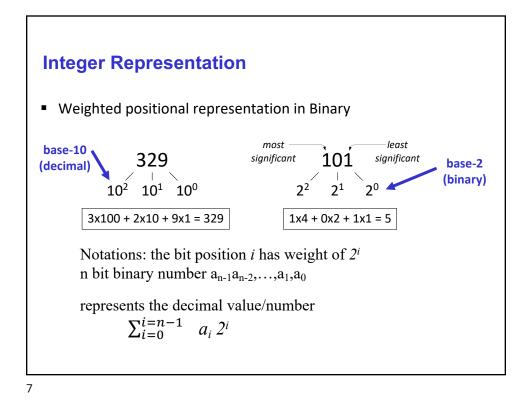




- 1. Review lecture on Binary RepresentationQuestions ?
- 2. Quick review of Physics (needed for circuit design)

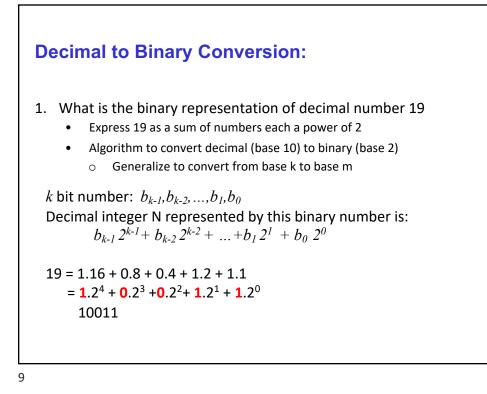
(Unsigned) Integer Representation

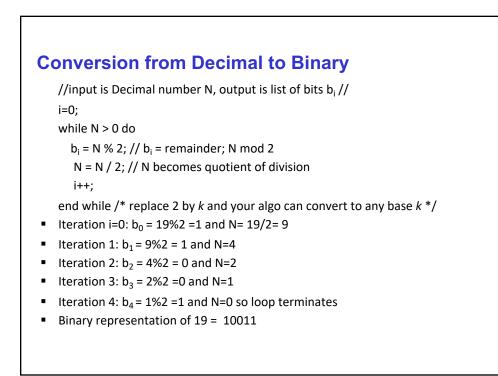
- Non-positional notation (unary): 5 represented as 11111
- What are you used to ? Decimal representation (0..9) and...
- Decimal Weighted positional representation
 - Position gives the weight of the location
- Extend to any base, including binary.....
 - Weights in decimal are 10^0 , 10^1 , 10^2 , 10^3 , ...
 - Weights in binary are 2⁰, 2¹, 2², 2³,....



Questions

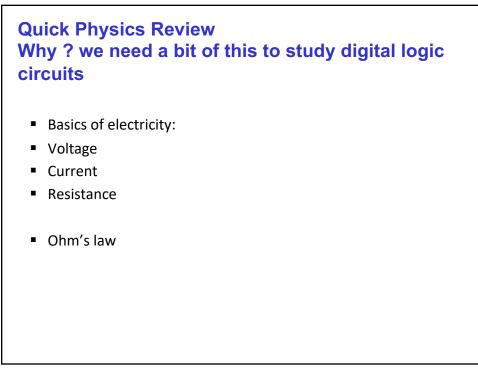
- what decimal number does the binary string 11001 represent
- What decimal number does 00110 represent ?

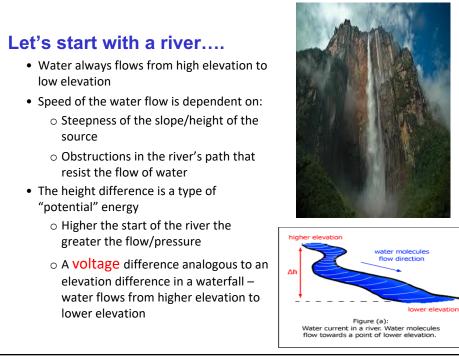


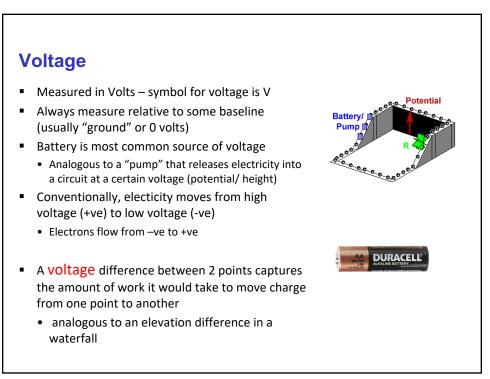


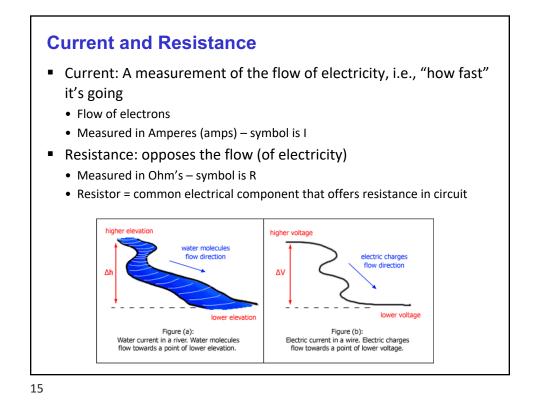


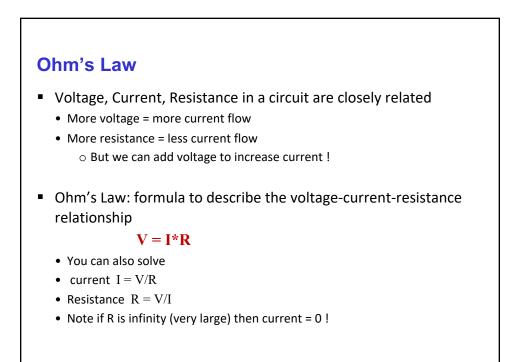
- What is the binary representation of 11
- What is the binary representation of 23

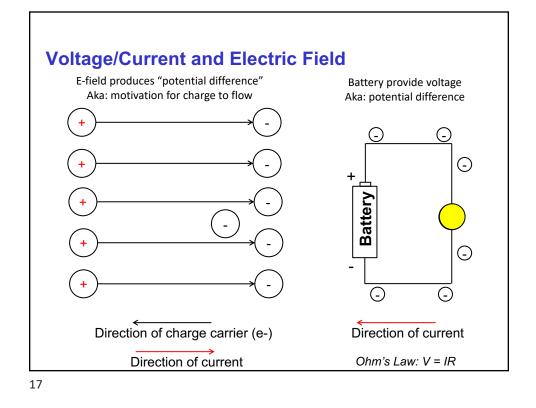


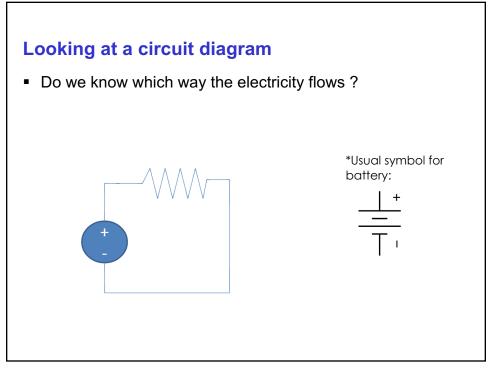


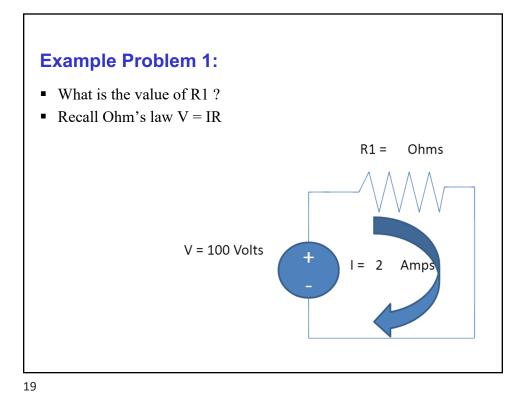


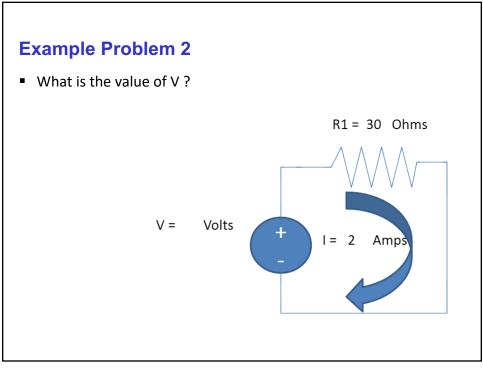














- Types of Circuits
 - Series
 - Parallel

