

Binary

9th June 2020

OVERVIEW

Taking a quick break from coding, it is important to understand at least a **BIT!** (That is a joke)

GOALS

1. Introduce the binary number system and its significance

- a. VOCAB

- i. Binary
- ii. Bit
- iii. Byte
- iv. Integer

2. Learn to count in binary

SPECIFICATIONS

1. The binary number system

INVESTIGATION

Binary Bonanza

The binary number system is the core of any computing system as due to it only having 1 or 0, a computer can parse it and make sense of it. Your task today will be simple, convert numbers into binary.

1. **Make two variables, assign them to any two numbers you wish.**
2. **Use: `Integer.toString(x,2)` to convert into binary, then print out the converted number**
 - a. **Note x will be the number or variable you wish to convert**

3. Perform operations on numbers, then convert them to binary and see if you can predict the result.

a. Example: 1 is 0001 and 4 is 0100. $4 + 1$ is 5 and 5 is 0101