**Binary Code Notes**

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| **Notes** | **Questions / Thoughts / Notes** |
| 1. Computers only recognize states of being, or . 2. Our decimal system is also known as a . This means that . 3. Binary Code is also known as a system. This means that . 4. In Binary, the letters of the alphabet must be given a which is then converted to . 5. (ASCII) uses a binary code to represent and other characters. Each character is assigned a number from to . 6. To read Binary - Letters:    1. Break it into sections    2. Each section equals a character    3. Upper case letters start with    4. Lower case letters start with    5. Why can you ignore the first three numbers of a bit? 7. To read Binary – Numbers:    1. Break it into sections    2. Each section equals a number    3. Each place value of the binary number is a .  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | Binary | | | | | | | | | 128 | 64 | 32 | 16 | 8 | 4 | 2 | 1 | | 27 | 26 | 25 | 24 | 23 | 22 | 21 | 20 | | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | |  | | | | | | | |  * 1. To convert a decimal number to binary, you need only the power of .   2. To convert from binary to decimal, add up the columns. |  |

**Practice**

*Convert the following numbers to binary.*

1. 50
2. 101
3. 520
4. 72

*Convert the following numbers to decimal.*

1. 00000101
2. 01010101
3. 00011101
4. 00110110