**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 .

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| 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.
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**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