

Binary Name Tags

Binary Numbers

Computers work in binary. Binary uses only 2 digits – 1 and 0. Computers store data using 1s and 0s. For a computer to understand information and instruction, it uses binary. Computers love binary!

The Challenge – Binary Name Tags

Using the alphabet-to-binary translator, spell out your first name in binary! Write your name and binary name on the name tag or make your own tag.

For example, M would be written as 01001101.

Extension: turn the names of your family and friends into binary too!

What You'll Need

Pens/pencils
This handout, or plain paper

Why are we doing this?

This lets you practice using binary numbers – you'll be able to introduce yourself in computer language!

| Upper case | |
|------------|----------|
| A | 01000001 |
| B | 01000010 |
| C | 01000011 |
| D | 01000100 |
| E | 01000101 |
| F | 01000110 |
| G | 01000111 |
| H | 01001000 |
| I | 01001001 |
| J | 01001010 |
| K | 01001011 |
| L | 01001100 |
| M | 01001101 |
| N | 01001110 |
| O | 01001111 |
| P | 01010000 |
| Q | 01010001 |
| R | 01010010 |
| S | 01010011 |
| T | 01010100 |
| U | 01010101 |
| V | 01010110 |
| W | 01010111 |
| X | 01011000 |
| Y | 01011001 |
| Z | 01011010 |

| Lower case | |
|------------|----------|
| a | 01100001 |
| b | 01100010 |
| c | 01100011 |
| d | 01100100 |
| e | 01100101 |
| f | 01100110 |
| g | 01100111 |
| h | 01101000 |
| i | 01101001 |
| j | 01101010 |
| k | 01101011 |
| l | 01101100 |
| m | 01101101 |
| n | 01101110 |
| o | 01101111 |
| p | 01110000 |
| q | 01110001 |
| r | 01110010 |
| s | 01110011 |
| t | 01110100 |
| u | 01110101 |
| v | 01110110 |
| w | 01110111 |
| x | 01111000 |
| y | 01111001 |
| z | 01111010 |

My name is...

My name is...



