Binary

Capital Letters, Lowercase Letters, And Numbers

includes

10

binary code activity ideas

Thank You!

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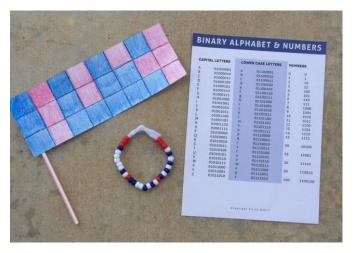
- Claire & Natasha, The Vivify Team

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ABOUT THESE ACTIVITIES

The following page is a reference sheet to be used when learning binary and completing related activities. Below is a list of suggested activities for kids using binary!

Binary activities:

1. Make a necklace that spells out your name or a message in binary. Requires string and 3 colors of beads (one color for "0", another for "1" and another to separate letters)
2. Write coded messages to a friend in binary.
3. Write words or your name in binary using Legos
4. Make a clock with binary numbers
5. Make a picture on graphing paper by writing a phrase in binary (stacking the words on top of each other) and coloring in either just the "0's" or just the "1's"
6. Make a Christmas tree ornament out of beads and pipe cleaners that spells something in binary.
7. Make a flag using strips of paper as horizontal stripes. Each strip of paper will represent one letter in your name or state/country. Draw squares on each strip and color a square for "0" and another color for "1". Stack your strips (letters) to vertically spell your word. Attach your word to a stick and display your flag!
8. Make a song by spelling out a short word in binary with clapping for "0" and stomping for "1"
9. Make a name tag for your desk or bedroom door using the binary alphabet and art supplies
10. Make a paper flower that spells out "love" in binary. Cut out 4 circles (one for each letter) of decreasing sizes and divide them into 8 slices each. Color each slice one color for "0" and another for "1". Poke a hole in the center of each circle. Stack them biggest to smallest and slide them onto a green pipe cleaner "stem".

BINARY ALPHABET & NUMBERS

CAPITAL LETTERS		LOWER CASE LETTERS		NUMBERS	
A	01000001	a	01100001	0	0
B	01000010	b	01100010	1	1
C	01000011	c	01100011	2	10
D	01000100	d	01100100	3	11
E	01000101	e	01100101	4	100
F	01000110	f	01100110	5	101
G	01000111	g	01100111	6	110
H	01001000	h	01101000	7	111
I	01001001	i	01101001	8	1000
J	01001010	j	01101010	9	1001
K	01001011	k	01101011	10	1010
L	01001100	l	01101100	11	1011
M	01001101	m	01101101	12	1100
N	01001110	n	01101110	13	1101
O	01001111	o	01101111	14	1110
P	01010000	p	01110000	15	1111
Q	01010001	q	01110001		
R	01010010	r	01110010	20	10100
S	01010011	s	01110011		
T	01010100	t	01110100	25	11001
U	01010101	u	01110101		
V	01010110	v	01110110	30	11110
W	01010111	w	01110111		
X	01011000	x	01111000	50	110010
Y	01011001	y	01111001		
Z	01011010	z	01111010	100	1100100