

Activity title: Binary Bracelets, by Margarida Barbieri
from Portugal



Theme: Robots

Month: November

Aim: Code the first letter of the name in binary code and use the code to make a bracelet

Resources/materials needed: Small wood or plastic beads with different colors; elastic cord

Introduction: How to read binary? Discussion with children about this topic. Additional information is available:

ABC's of How to Read Binary

Created by Deirdre Smith of JDaniel4's Mom

A	01000001
B	01000010
C	01000011

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<https://jdaniel4smom.com/2017/07/abcs-of-how-to-read-binary-stem-activity-printable.html>

Step 1: Children use the binary code to translate the first letter of the name to binary code!

U Name: _____ Date: _____

Binary Bracelets
Binary Decoder Key

A	■ ■ ■ ■ ■ □	N	■ ■ ■ □ □ □ ■
B	■ ■ ■ ■ ■ ■	O	■ ■ ■ □ □ □ □
C	■ ■ ■ ■ ■ □	P	■ ■ ■ ■ ■ ■
D	■ ■ ■ ■ ■ ■	Q	■ ■ ■ ■ ■ □
E	■ ■ ■ ■ ■ □	R	■ ■ ■ ■ ■ ■
F	■ ■ ■ ■ ■ □	S	■ ■ ■ ■ ■ ■
G	■ ■ ■ ■ ■ □	T	■ ■ ■ ■ ■ ■
H	■ ■ ■ ■ ■ ■	U	■ ■ ■ ■ ■ □
I	■ ■ ■ ■ ■ □	V	■ ■ ■ ■ ■ ■
J	■ ■ ■ ■ ■ ■	W	■ ■ ■ ■ ■ ■
K	■ ■ ■ ■ ■ □	X	■ ■ ■ ■ ■ ■
L	■ ■ ■ ■ ■ □	Y	■ ■ ■ ■ ■ ■
M	■ ■ ■ ■ ■ □	Z	■ ■ ■ ■ ■ ■

Find the first letter of your first name.
Fill in the squares of the bracelet below to match the pattern of the squares next to the letter that you found.
Cut the bracelet out and tape it around your wrist to wear it!

□ □ □ □ □ □ □ □

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Step 2: Children chose 2 different colors beads and use the code to make the bracelet.

Step 3: Let children take pictures and share it with others, for example “guess my name”!!!

Here are are some examples of bracelets I’ve done with children a few years ago:

