

Binary Bracelets

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 Bracelets

Create your own binary bracelet!

Step 1 – Cut out the bracelet template or create your own using a ruler /pencil and a piece of paper.

Step 2 – Using the alphabet-to-binary translator, find the binary version of the first letter of your name.

Step 3 – Colour in the squares according to the binary value. 0s should be left white and 1s coloured in.

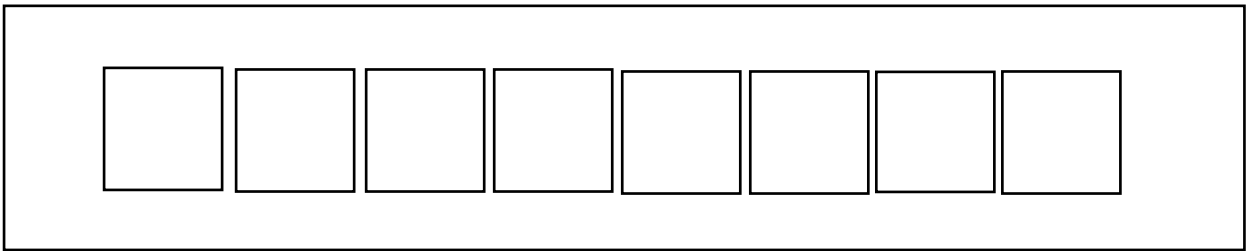
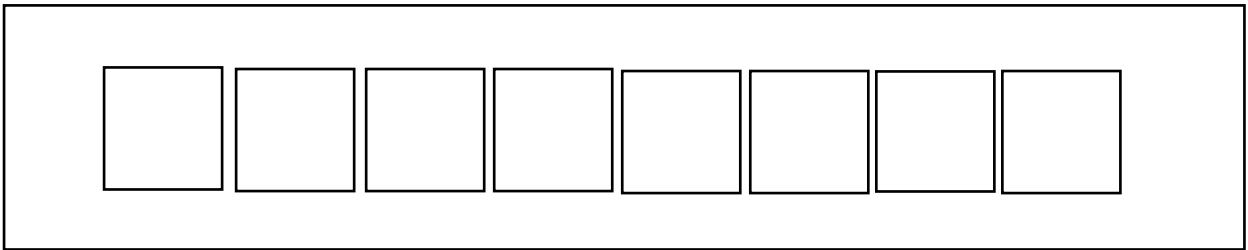
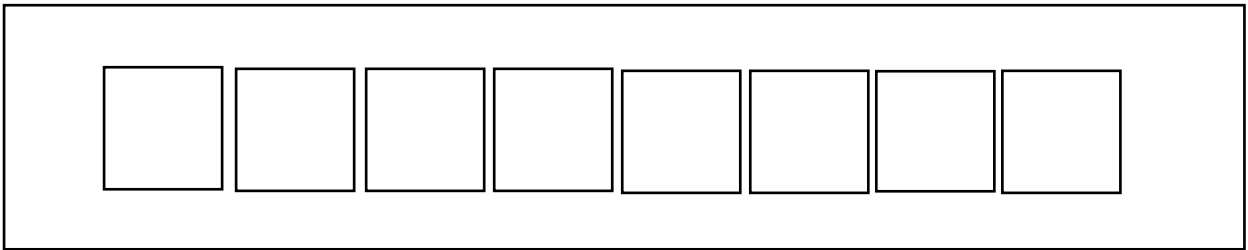
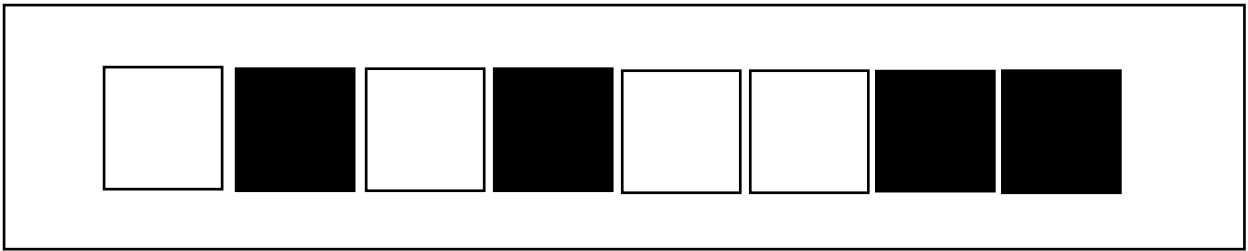
What You'll Need

- Pens/pencils
- Scissors
- Sellotape or glue
- Colouring pencils
- Paper or this handout

Why are we doing this?

This lets you practice using algorithms in a simple task and shows how easy they are to use! To improve your algorithm, try making the instructions very specific.

Example Bracelet (Letter S)



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