

# CODE YOUR NAME BRACELET

This craft is designed to familiarize you with the idea that everything that happens inside of a computer is numbers.

The number system that computers use is called Binary. Binary means "a notation that uses two options for each selection." Computers read this as "on" or "off" or in reality "1" or "0".

The software that we use on our computers interprets this binary code into a way that we can read it. The code we're using to turn binary into something we can read is ASCII: "American Standard Code for Information Interchange."

So, we need to use the beads to represent whether or not information is turned on or off.

1

You have three types of beads to represent binary code that we will encode into ASCII:

Black Bead = Off

Red Bead = On

Blue Bead = Delimiter



A "delimiter" represents the beginning/end of a string of information.

2

Below is the key for translating the letters of your initials into binary code! There is a copy in your kit, but here's an extra just in case! There are enough beads in your bag to do at least three letters.

Letter	Binary	Letter	Binary
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	■□■ □■■■

Depiction of ASCII Encoder Card

