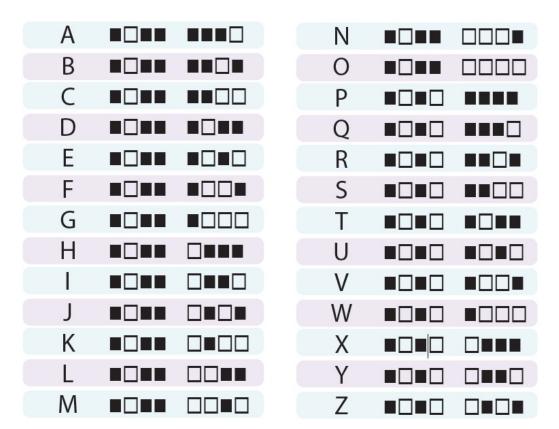# Binary Code Bracelet

Binary is a way of storing or sending information using only two options. Wires carry information through a computer in the form of electricity. Computers transport, calculate, and translate in binary because computer hardware circuits only have two electrical states, "on" or "off." You may have seen it represented using 1 and 0.
In this project we are using two colors to represent the on and off states that represent each letter.

1. **Cut string or cord to desired length for a necklace or bracelet. Remember to leave a little extra for the knot.**

2. **Put a piece of tape across one end of the cord and fold it over on itself. This keeps your beads from falling off.**

3. **Use the binary alphabet code below to place your beads in the order for each letter. Remember to add a colored spacer between each letter.**

4. **When you have all your beads on, carefully remove the tape and tie your two ends together in a double knot.**

Letter	Code		Letter	Code
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	■□■□ □■□■

Materials Needed

- Beads in 3 colors
- Cording or string
- Tape

image from https://code.org/curriculum/course2/14/Teacher