



Code Your Name in Binary!

Supplies:

- String or Cord
- Beads: 3 different colors
- Paper
- Pencils/Pens

Directions:

1. Girls should write their name on a piece of paper.
2. Using the Binary Code image below, match up each letter with its code to create a map
3. Using the map, girls string beads aligning the design with their code.
 - a. The third color bead is to be used as a space between letters
4. Once their name is complete, the string can be tied and worn as a necklace or bracelet (depending on the length of the girls name)

STE(A)M Subject(s):

Computer Science and Math

Related Badge(s) or Journey(s):

(B) Computer Expert (J) Jeweler, Detective

Additional Resources:

Binary numbers and coding:
<https://www.kidscodecs.com/a-binary-numbers-tutorial-with-1-and-0/>

Binary numbers:
<http://csunplugged.org/binary-numbers/>

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	■□□□ □□■□

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