

# FRISCO PUBLIC Library

## Activities at Home

### Make your own binary code bracelet

Binary code is any code that uses 2 symbols to represent information. One of the most common binary codes is the American standard code for information interchange (ASCII). This code uses 0's and 1's to represent text in computers, but binary code doesn't have to be virtual. Let's use binary code to make a bracelet with your initials!

#### Supplies:

- String or yarn
- 3 different colors of beads

#### Instructions:

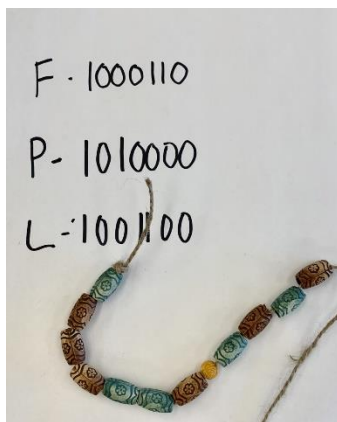
1. Decide which color bead will represent 0, which will represent 1, and which will be the spacer.



2. Use the ASCII alphabet below to write out your initials in binary code

F - 1000110  
P - 1010000  
L - 1001100

3. Tie a large knot at the end of the string, and add the beads on the string in the order of the code. Don't forget to put a spacer between each letter.



4. Tie the two ends together and you're done! What else could you spell out in binary code? Try writing a secret message to a friend and see if they can decode it.

# ASCII BINARY ALPHABET

<b>A</b>	1000001	<b>N</b>	1001110
<b>B</b>	1000010	<b>O</b>	1001111
<b>C</b>	1000011	<b>P</b>	1010000
<b>D</b>	1000100	<b>Q</b>	1010001
<b>E</b>	1000101	<b>R</b>	1010010
<b>F</b>	1000110	<b>S</b>	1010011
<b>G</b>	1000111	<b>T</b>	1010100
<b>H</b>	1001000	<b>U</b>	1010101
<b>I</b>	1001001	<b>V</b>	1010110
<b>J</b>	1001010	<b>W</b>	1010111
<b>K</b>	1001011	<b>X</b>	1010111
<b>L</b>	1001100	<b>Y</b>	1011001
<b>M</b>	1001101	<b>Z</b>	1011010