

## **Binary Bracelets**

<u>Goal:</u> Binary code allows computers to store information. This activity introduces students to the binary number system and allows students to gain an understanding of how computers work.

## Materials -

- o pipe cleaners
- beads (2+ colors)
- binary decoder key

## Procedure -

- 1. Select 2 different colored beads. Assign each color either 0 or 1
- 2. Use the decoder key to translate your initials into binary code.
- 3. Put beads on the pipe cleaner, according to the binary code translated
  - a. \*optional: use a different colored bead as a spacer between letters
- 4. When finished, tie off your pipe cleaner
- ★ Explanation: Each letter can be represented by a different binary number. When looking at the key, students may even notice a pattern when looking at the letters in alphabetical order.

## Image(s) -

| Α |  | N |      |
|---|--|---|------|
| В |  | 0 |      |
| C |  | Р |      |
| D |  | Q |      |
| E |  | R |      |
| F |  | S |      |
| G |  | Т |      |
| Н |  | U |      |
| 1 |  | V |      |
| J |  | W |      |
| K |  | Χ |      |
| L |  | Υ |      |
| M |  | Z | □■□■ |









