

BINARY BRACELETS

01010101

binary code

WHAT IS BINARY?

Binary code uses only zeros and ones in a sequence of eight spots! Each number is a *bit "Binary Digit"*!

WHAT DOES BINARY CODE DO?

It represents text and is used to communicate information between computers, communication devices, and many more modern technologies.

WHAT IS A DELIMITER?

A **delimiter** is one or more characters that separates text strings. This is represented with a single bead in the binary bracelet!

THE ACTIVITY



(will allow you to embed your own name in binary on a bracelet)

Make a Binary Bracelet

1. Spell out your name on paper.
2. Use the key (next page) to write out each letter in binary code.
3. Transform each letter to a colored bead. Choose one color bead to represent the white squares (signifying "1") and another color to represent the black squares (signifying "0"). Between each letter you can add an extra bead in a color of your choice as a divider "delimiter".
4. Cut a length of cording, sized to your wrist, with a few extra inches (4 inches) added on. Make a triple knot to start the bracelet. Then string each of your bits and delimiter beads on the string towards the knotted end.
5. Holding the open end carefully, try wrapping it around your wrist to see how it fits and looks. Once you're satisfied, carefully knot the open end of string and then tie the two ends together, leaving enough of that extra string to slip it over your hand.
6. Cut off any remaining string, far enough away from the knots so they don't loosen.

THE KEY

A ■ □ ■ ■ ■ ■ ■ □

B ■ □ ■ ■ ■ ■ □ ■

C ■ □ ■ ■ ■ ■ □ □

D ■ □ ■ ■ ■ □ ■ ■

E ■ □ ■ ■ ■ □ ■ □

F ■ □ ■ ■ ■ □ □ ■

G ■ □ ■ ■ ■ □ □ □

H ■ □ ■ ■ □ ■ ■ ■

I ■ □ ■ ■ □ ■ ■ □

J ■ □ ■ ■ □ ■ □ ■

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