

[illegible]

Bracelet Craft

Bracelet Craft

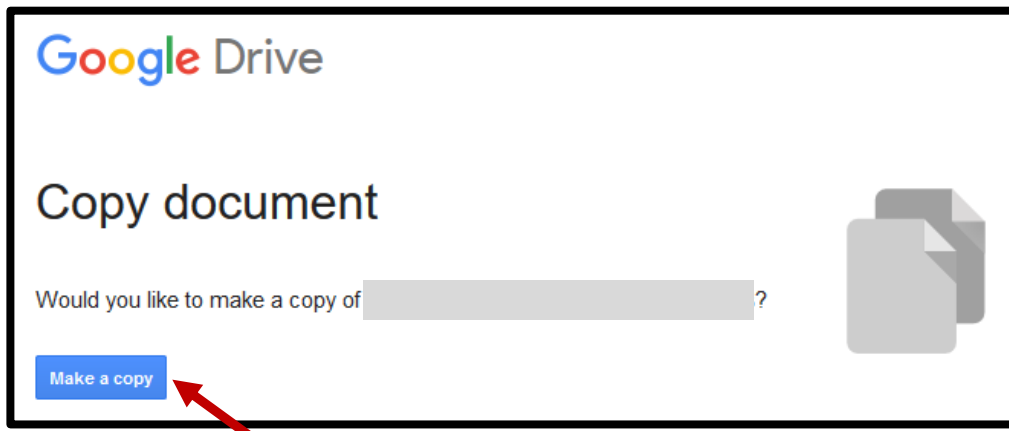
Table of Contents

| | |
|---|---|
| Digital Version Instructions _____ | 3 |
| Instructions _____ | 4 |
| Binary Code Charts _____ | 5 |
| Project onto board for students to see or print out copies for students to use individually. | |
| Code Your Name Worksheet _____ | 9 |

Digital Version

INSTRUCTIONS FOR GOOGLE DRIVE

1. Click on the link at the bottom of the page, which will open the window shown below.



2. Click on **Make a Copy** to save a copy of the file to your Google Drive. From there, you can edit, rearrange, or delete slides. Please note that most of the components on the slides are flattened, which means they are not editable. Editable text boxes will be shaded in light blue.
3. When assigning on Google Classroom, be sure to select “Make a copy for each student” to ensure that each student has their own copy to work on individually.

NOTE: Google Slides does not “self-check” the students’ work like Google Forms can. Instead, students complete the work and submit it to you. Then, you can check it and return it to the students.

[CLICK HERE FOR THE DIGITAL VERSION](#)

Instructions

Materials Needed:

- [Small plastic beads](#), at least three different colors (pony beads work well)
- [Elastic Cord](#), about 18 inches per bracelet (an easy way to cut a lot at one time is to get a yard stick and hold the beginning of the cord at one end & wrap the thread around the yard stick longways. Don't wrap too tightly. Slide the cord off and cut the folded ends. Then, cut all the pieces in half.)

Students will code their name in binary code then use that code to make a bracelet. Print the worksheet (p. 8) and have students write their name down the left side of the paper, one letter in each blank. Then, students will use the binary code chart to translate each letter to binary code. Print extra pages for names longer than 10 letters.

Students will then use the worksheet to make their bracelet. They will need three colors: one color for the 1's in the binary code, a second color for the 0's in the binary code, and a third color to separate each 8-digit "letter".

For example, my name is Katie. Using all capital letters, my code will be:

01001011 01000001 01010100 01001001 01000101

If I used red for 0, blue for 1, and yellow for spaces, my bracelet would look like this:



Using a separator color bead, tie a knot around the bead, leaving about 1 ½ inches on one side of the bead. Begin stringing the beads for the first letter on the longer end of the elastic cord. If the students fill up the cord before finishing their name, you can tie another piece of cord on to the first and cut off the extra when they are finished. Thread another separator bead on at the very end. Students will know that their name begins after the two separator beads. After all beads have been thread, tie both ends of the bracelet together (big enough to slip over their wrist) and cut off the extra cord. For long names, bracelets may need to be wrapped around wrist twice or student can make a necklace.

Binary Alphabet

| | |
|---|----------|
| A | 01000001 |
| B | 01000010 |
| C | 01000011 |
| D | 01000100 |
| E | 01000101 |
| F | 01000110 |
| G | 01000111 |
| H | 01001000 |
| I | 01001001 |
| J | 01001010 |
| K | 01001011 |
| L | 01001100 |
| M | 01001101 |

| | |
|---|----------|
| N | 01001110 |
| O | 01001111 |
| P | 01010000 |
| Q | 01010001 |
| R | 01010010 |
| S | 01010011 |
| T | 01010100 |
| U | 01010101 |
| V | 01010110 |
| W | 01010111 |
| X | 01011000 |
| Y | 01011001 |
| Z | 01011010 |

Binary Alphabet

| | |
|---|-----------|
| a | 011000001 |
| b | 011000010 |
| c | 011000011 |
| d | 011000100 |
| e | 011000101 |
| f | 011000110 |
| g | 011000111 |
| h | 011010000 |
| i | 011010001 |
| j | 011010010 |
| k | 011010011 |
| l | 011010100 |
| m | 011010101 |

| | |
|---|----------|
| n | 01101110 |
| o | 01101111 |
| p | 01110000 |
| q | 01110001 |
| r | 01110010 |
| s | 01110011 |
| t | 01110100 |
| u | 01110101 |
| v | 01110110 |
| w | 01110111 |
| x | 01111000 |
| y | 01111001 |
| z | 01111010 |

Upper Case

| | | | |
|---|----------|---|----------|
| A | 01000001 | N | 01001110 |
| B | 01000010 | O | 01001111 |
| C | 01000011 | P | 01010000 |
| D | 01000100 | Q | 01010001 |
| E | 01000101 | R | 01010010 |
| F | 01000110 | S | 01010011 |
| G | 01000111 | T | 01010100 |
| H | 01001000 | U | 01010101 |
| I | 01001001 | V | 01010110 |
| J | 01001010 | W | 01010111 |
| K | 01001011 | X | 01011000 |
| L | 01001100 | Y | 01011001 |
| M | 01001101 | Z | 01011010 |

B I N A R Y C O D E

Lower Case

| | |
|---|----------|
| a | 01100001 |
| b | 01100010 |
| c | 01100011 |
| d | 01100100 |
| e | 01100101 |
| f | 01100110 |
| g | 01100111 |
| h | 01101000 |
| i | 01101001 |
| j | 01101010 |
| k | 01101011 |
| l | 01101100 |
| m | 01101101 |

| | |
|---|----------|
| n | 01101110 |
| o | 01101111 |
| p | 01110000 |
| q | 01110001 |
| r | 01110010 |
| s | 01110011 |
| t | 01110100 |
| u | 01110101 |
| v | 01110110 |
| w | 01110111 |
| x | 01111000 |
| y | 01111001 |
| z | 01111010 |

Upper Case

| | | | |
|---|----------|---|----------|
| A | 01000001 | N | 01001110 |
| B | 01000010 | O | 01001111 |
| C | 01000011 | P | 01010000 |
| D | 01000100 | Q | 01010001 |
| E | 01000101 | R | 01010010 |
| F | 01000110 | S | 01010011 |
| G | 01000111 | T | 01010100 |
| H | 01001000 | U | 01010101 |
| I | 01001001 | V | 01010110 |
| J | 01001010 | W | 01010111 |
| K | 01001011 | X | 01011000 |
| L | 01001100 | Y | 01011001 |
| M | 01001101 | Z | 01011010 |

B I N A R Y C O D E

Lower Case

| | | | |
|---|----------|---|----------|
| a | 01100001 | n | 01101110 |
| b | 01100010 | o | 01101111 |
| c | 01100011 | p | 01110000 |
| d | 01100100 | q | 01110001 |
| e | 01100101 | r | 01110010 |
| f | 01100110 | s | 01110011 |
| g | 01100111 | t | 01110100 |
| h | 01101000 | u | 01110101 |
| i | 01101001 | v | 01110110 |
| j | 01101010 | w | 01110111 |
| k | 01101011 | x | 01111000 |
| l | 01101100 | y | 01111001 |
| m | 01101101 | z | 01111010 |

Upper Case

| | | | |
|---|----------|---|----------|
| A | 01000001 | N | 01001110 |
| B | 01000010 | O | 01001111 |
| C | 01000011 | P | 01010000 |
| D | 01000100 | Q | 01010001 |
| E | 01000101 | R | 01010010 |
| F | 01000110 | S | 01010011 |
| G | 01000111 | T | 01010100 |
| H | 01001000 | U | 01010101 |
| I | 01001001 | V | 01010110 |
| J | 01001010 | W | 01010111 |
| K | 01001011 | X | 01011000 |
| L | 01001100 | Y | 01011001 |
| M | 01001101 | Z | 01011010 |

B I N A R Y C O D E

Lower Case

| | | | |
|---|----------|---|----------|
| a | 01100001 | n | 01101110 |
| b | 01100010 | o | 01101111 |
| c | 01100011 | p | 01110000 |
| d | 01100100 | q | 01110001 |
| e | 01100101 | r | 01110010 |
| f | 01100110 | s | 01110011 |
| g | 01100111 | t | 01110100 |
| h | 01101000 | u | 01110101 |
| i | 01101001 | v | 01110110 |
| j | 01101010 | w | 01110111 |
| k | 01101011 | x | 01111000 |
| l | 01101100 | y | 01111001 |
| m | 01101101 | z | 01111010 |

Name: _____ Date: _____

Binary Code Your Name

Directions: Write your name down the left side of the page, then use the binary code alphabet to find the code for each letter.

| | | | | | | | |
|-------|--|--|--|--|--|--|--|
| _____ | | | | | | | |
| _____ | | | | | | | |
| _____ | | | | | | | |
| _____ | | | | | | | |
| _____ | | | | | | | |
| _____ | | | | | | | |
| _____ | | | | | | | |
| _____ | | | | | | | |
| _____ | | | | | | | |
| _____ | | | | | | | |

Thank You!



Thank you for your purchase! I have worked very hard to create this resource for you. I am entirely grateful for your support and hope you find this product helpful. Please remember to leave feedback to earn TpT credits, which [can be used on future purchases](#). Also, I'd love for you to [follow me on TpT](#) to be notified when new products are released.

~Katie Stokes

Let's Connect



You May:

- Use this item for your own personal or student use in a single classroom or home.
- Copy this item for use in your classroom/home by your students.
- Purchase additional licenses at a discount for others to use by returning to your "My Purchases" page.

You May Not:

- Give/share this item with colleagues or friends.
- Copy this item for use by others.
- Post this item on a website, including personal, classroom, or district websites.
- Copy or modify any part of this resource to offer to others for free or for sale.

Terms of Use

© Katie Stokes. All rights reserved. Purchase of this resource entitles the purchaser the right to reproduce the pages for single classroom use only. Duplication for an entire school, an entire school system, or commercial purposes is strictly forbidden without written permission from the publisher.

Copying any part of this product and placing it on the Internet in any form (even personal/classroom websites) is strictly forbidden and is a violation of the Digital Millennium Copyright Act (DMCA).

Special Thanks



You May Also Like

