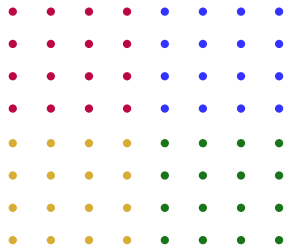




STOP

Binary BRACELETS

COMPUTATIONAL THINKER

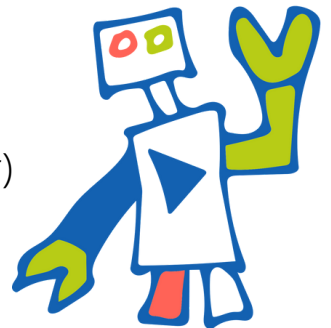


Binary Code is the way computer store information. Binary is a way of representing data using only two option (yes/no, true/false, 1/0). Each line of binary code is made of up 8 units called a **byte**. Each unit of the byte is called a **bit**. We can represent letters in the alphabet using binary code.

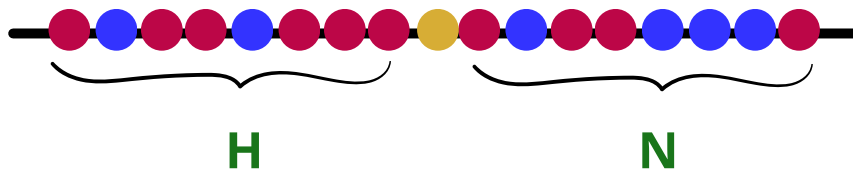
CHALLENGE



Create a bracelet that represents the first letter of your first name and the first letter of your last name.



1. Locate your letters on the Binary Decoder Key
2. Choose a color bead to represent the 0 bit (or the dark color)
3. Choose a color bead to represent the 1 bit (the white color)
4. Choose a color for a spacer between the letters
5. Cut and tie off the vinyl lacing on one side
6. String the beads onto the lacing - being sure to put a spacer between the letters





Unplugged

Name: _____

Date: _____

Binary Bracelets

Binary Decoder Key



A	■ □ ■ ■ ■	■ ■ ■ ■ □
B	■ □ ■ ■ ■	■ ■ ■ □ ■
C	■ □ ■ ■ ■	■ ■ ■ □ □
D	■ □ ■ ■ ■	■ □ ■ ■ ■
E	■ □ ■ ■ ■	■ □ ■ ■ □
F	■ □ ■ ■ ■	■ □ □ ■ ■
G	■ □ ■ ■ ■	■ □ □ □ □
H	■ □ ■ ■ ■	□ ■ ■ ■ ■
I	■ □ ■ ■ ■	□ ■ ■ ■ □
J	■ □ ■ ■ ■	□ ■ □ ■ ■
K	■ □ ■ ■ ■	□ ■ □ □ □
L	■ □ ■ ■ ■	□ □ ■ ■ ■
M	■ □ ■ ■ ■	□ □ ■ ■ □

N	■ □ ■ ■ ■	□ □ □ ■ ■
O	■ □ ■ ■ ■	□ □ □ □ □
P	■ □ ■ □ □	■ ■ ■ ■ ■
Q	■ □ ■ □ □	■ ■ ■ ■ □
R	■ □ ■ □ □	■ ■ ■ □ ■
S	■ □ ■ □ □	■ ■ ■ □ □
T	■ □ ■ □ □	■ □ ■ ■ ■
U	■ □ ■ □ □	■ □ ■ ■ □
V	■ □ ■ □ □	■ □ □ ■ ■
W	■ □ ■ □ □	■ □ □ □ □
X	■ □ ■ □ □	□ ■ ■ ■ ■
Y	■ □ ■ □ □	□ ■ ■ ■ □
Z	■ □ ■ □ □	□ ■ □ ■ ■

Find the first letter of your first name.

Fill in the squares of the bracelet below to match the pattern of the squares next to the letter that you found.

Cut the bracelet out and tape it around your wrist to wear it!

□ □ □ □ □ □ □ □

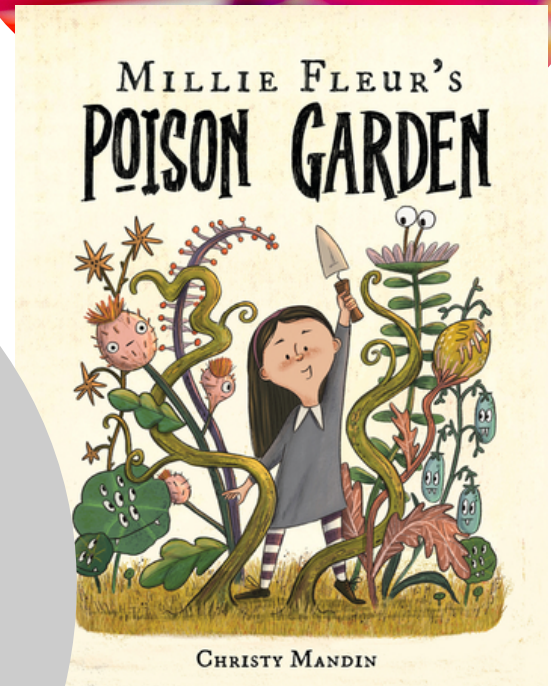


3D Pens

Create a model of a flower

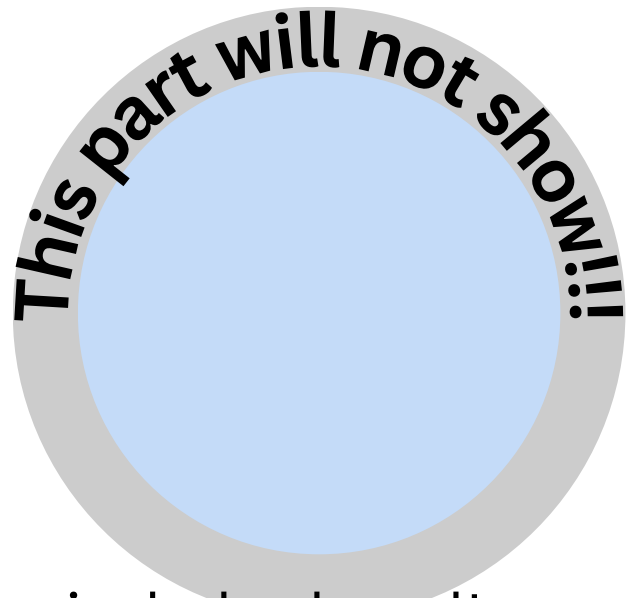


A trilobite is an extinct ancient arthropod that was the first species in the animal kingdom to develop complex eyes.

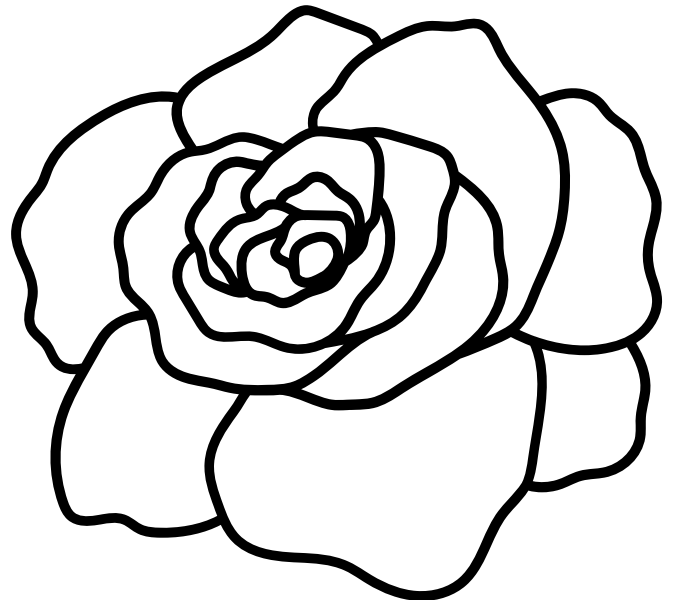
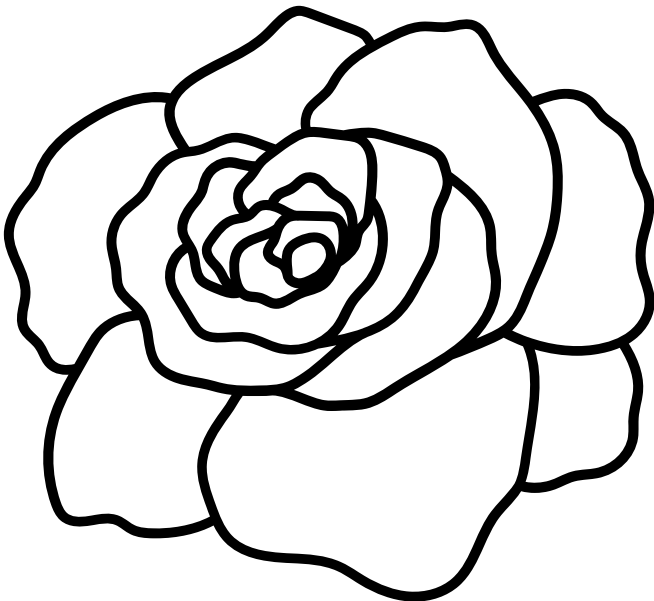
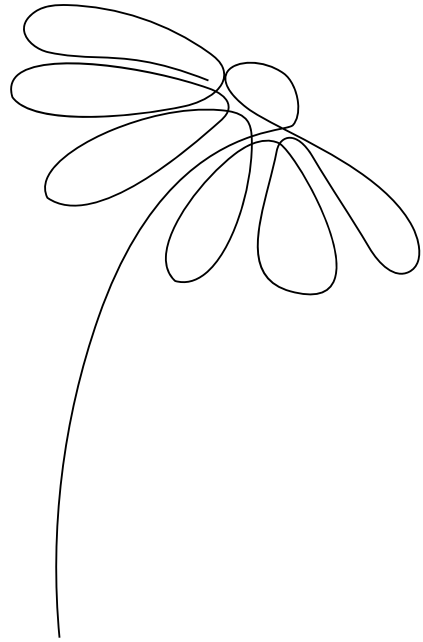
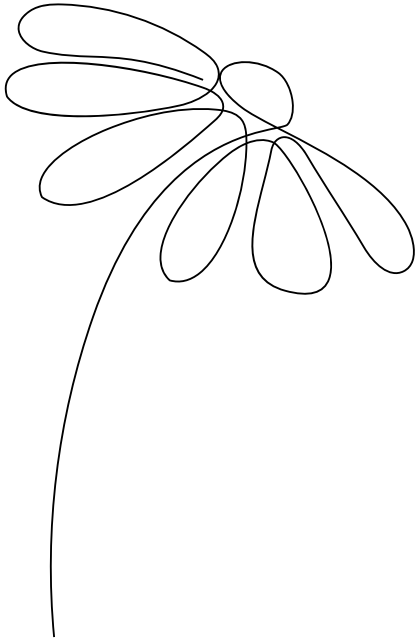
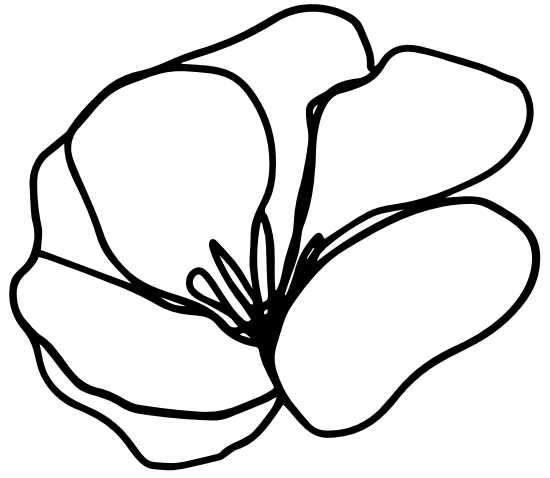
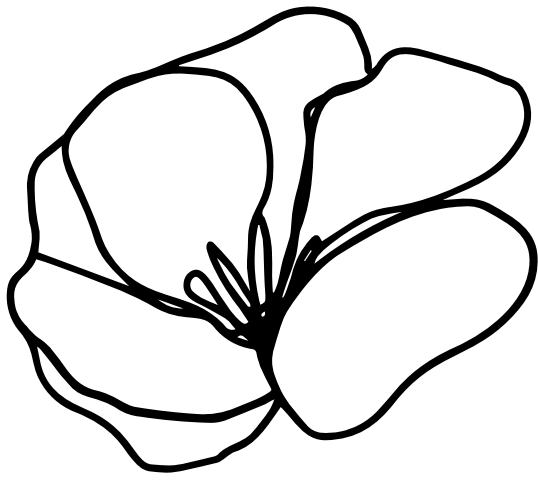


Text inspiration: Millie Fleur's Poison Garden

Make a Button



Do not cut out the circle by hand!



S T L P



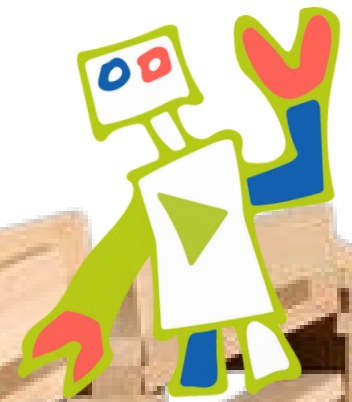
Build Challenge

INNOVATIVE DESIGNER

Build things that might be seen on a knight's quest for glory

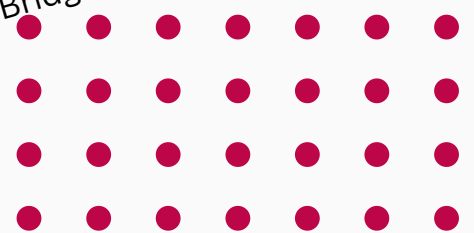


Some inspiration from: kevaplanks.com



25/26 Nominee

Bridge image from: kevaplanks.com



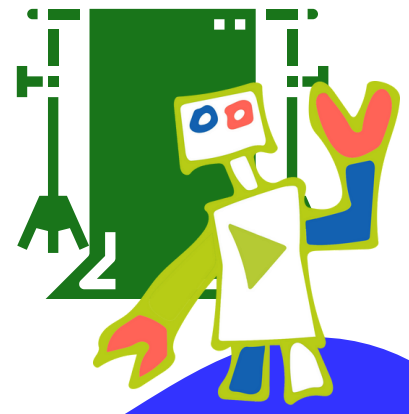
Inspired by: *The Book that Almost Rhymed*





Green Screen

CREATIVE COMMUNICATOR



RECREATE A SCENE

CREATE A PUPPET OR PROP
AND RECREATE A SCENE
FROM THE STORY



APP USED: DOINK GREEN SCREEN





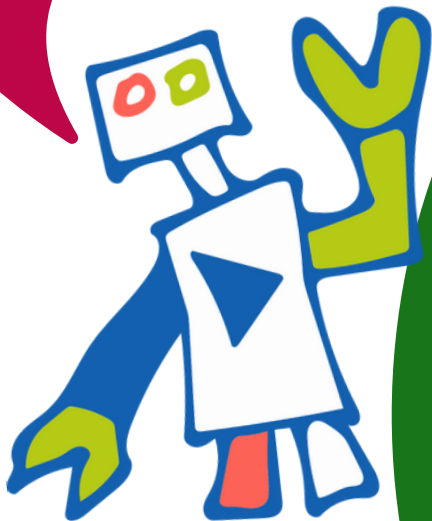
LED BUTTERFLY BOOKMARK



Video Instructions for Origami Butterfly

MAKE YOURSELF A
BOOKMARK LIGHT!

TRY A BUTTERFLY OR
ANOTHER ANIMAL
FEATURED



25/26
Nominee



LED LIGHT BASICS



1



- you need a piece of tape, a light and a coin battery
- Only use one light per battery.

2



- Slip the leads of the light around the battery - make sure the long lead is on the smooth side

3

- Tape the battery/light to your origami creation.

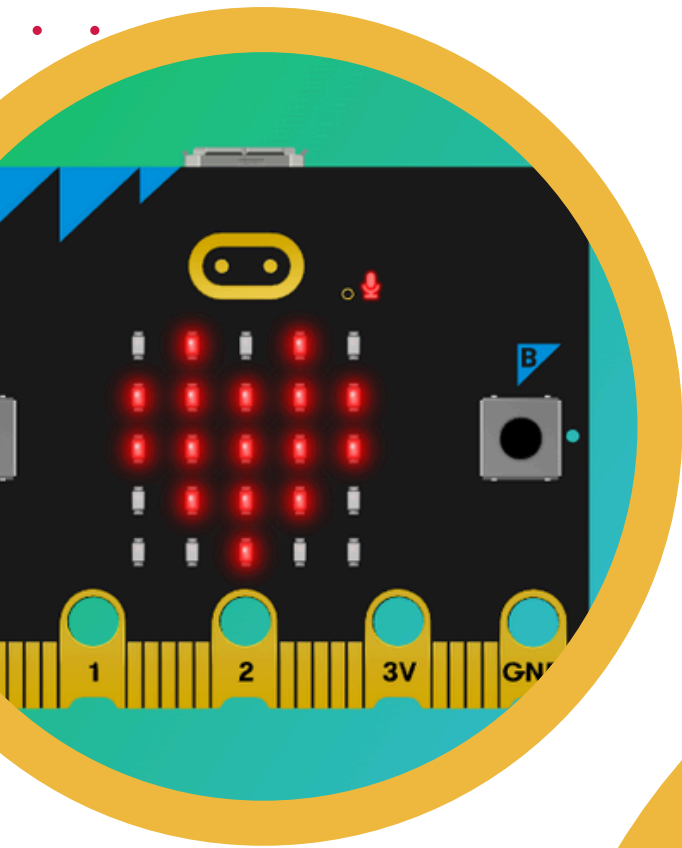




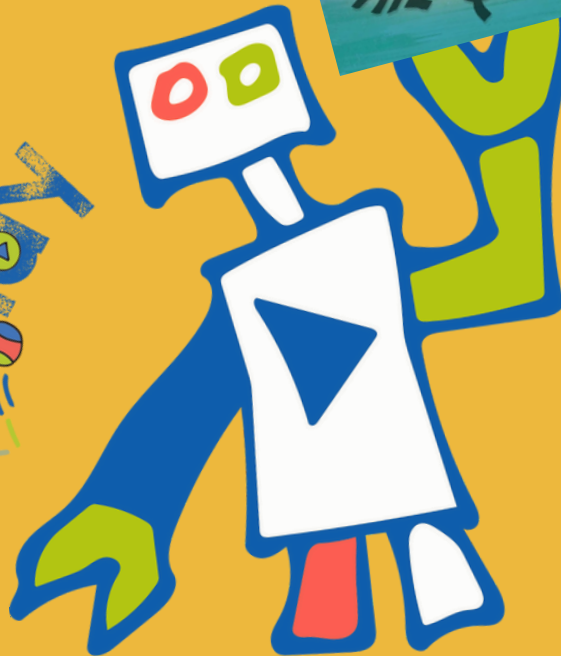
MICROBITS

COMPUTATIONAL THINKER

INSPIRED BY THE BOOK THE QUACKEN



25/26 Nominee

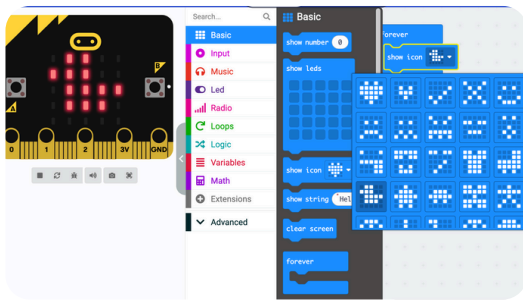




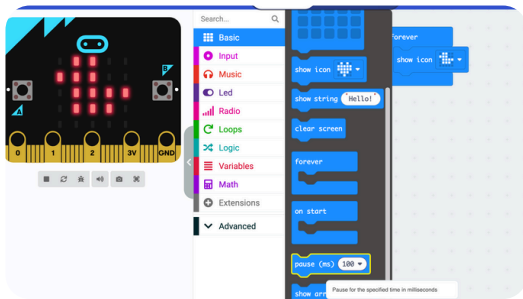
MICROBITS BASICS



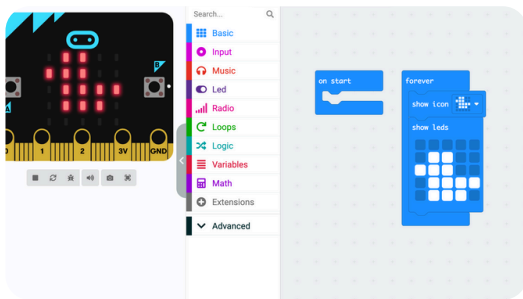
YOU ARE USING THE MICRO:BIT APP



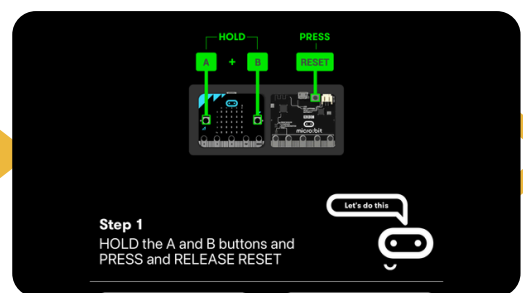
- Press Basic and drag a Forever block to your workspace
- Press Basic and drag the Show Icon block
- Select the duck from the drop down



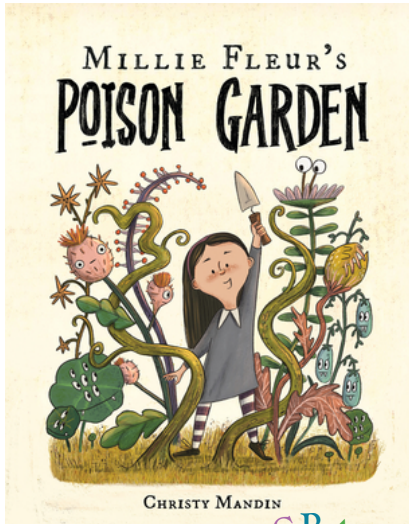
- Press the Basic option and drag a Pause button onto your workspace, connect it under the duck



- Press the Basic option and drag a Show LED block onto your workspace, connect it under the pause
- Touch the LED blocks to draw a duck lower than what the original is



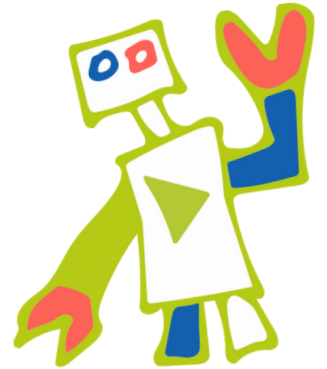
- Enter pairing mode by pressing and holding Reset three times OR A and B and pressing and letting go of the Reset
- Follow the directions on screen
- Modify the code by trying something new
 - Choose to add sound
 - Change how you start the program



25/26
Nominee

Lego Robotics

COMPUTATIONAL THINKER



“
LEGO SPIKE APP
”



Pollination

> MORE

Use the building instructions for the Pollination Lesson under Science and Nature in our Daily Life in the Spike App to learn about pollination.



ROBOT CHALLENGES

Dash Robot

Forces and Motion
How much can Dash lift?



25/26
Nominee



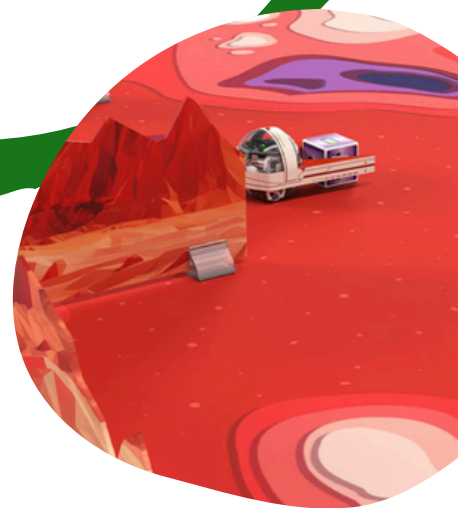
ROBOT CHALLENGES

Ozobot

Mission to Mars



25/26
Nominee



CODRONE EDU



Navigate the Mountains

**Try it from
10-11 AM & 1-2 PM**

Fly the drone through the mountain pass, flip and return.



**25/26
Nominee**



PARACHUTE CHALLENGE



Design a parachute to deliver a beaver safely to its new habitat.



25/26
Nominee





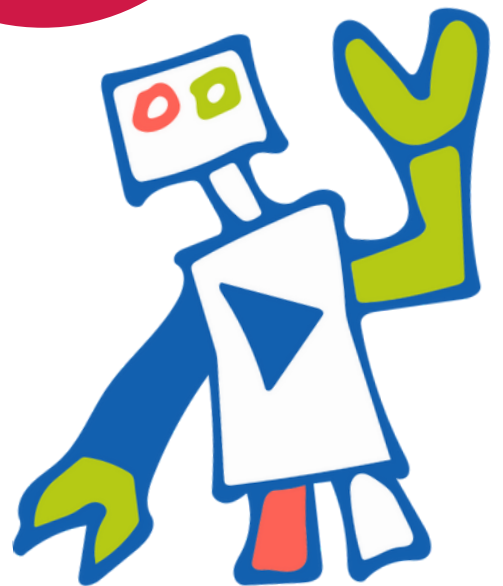
Explore MakeDo

Innovative Designer



Easy!!

Create Props
with
Cardboard!





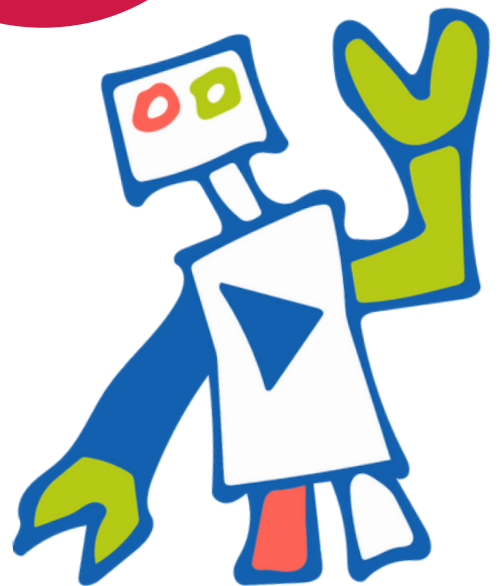
Explore LittleBits

Computational Thinker



Try the task
cards

Learn about
circuits





**I'M FROM
POEM**

Tell us Where You're From!



"I come from early morning wake-ups,
handcrafted blankets
knitted with memories.



25-26 Nominee

Write a poem and draw a picture to
add to our collaborative poem.

PUPPET MAKING

KNOWLEDGE CONSTRUCTOR



24-25 Nominee

Create a puppet or a prop for one of the books - use the green screen app to act out a scene!

