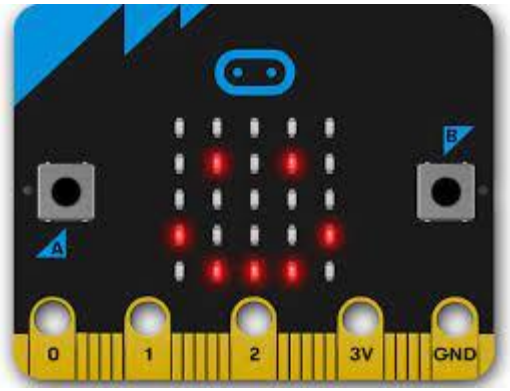
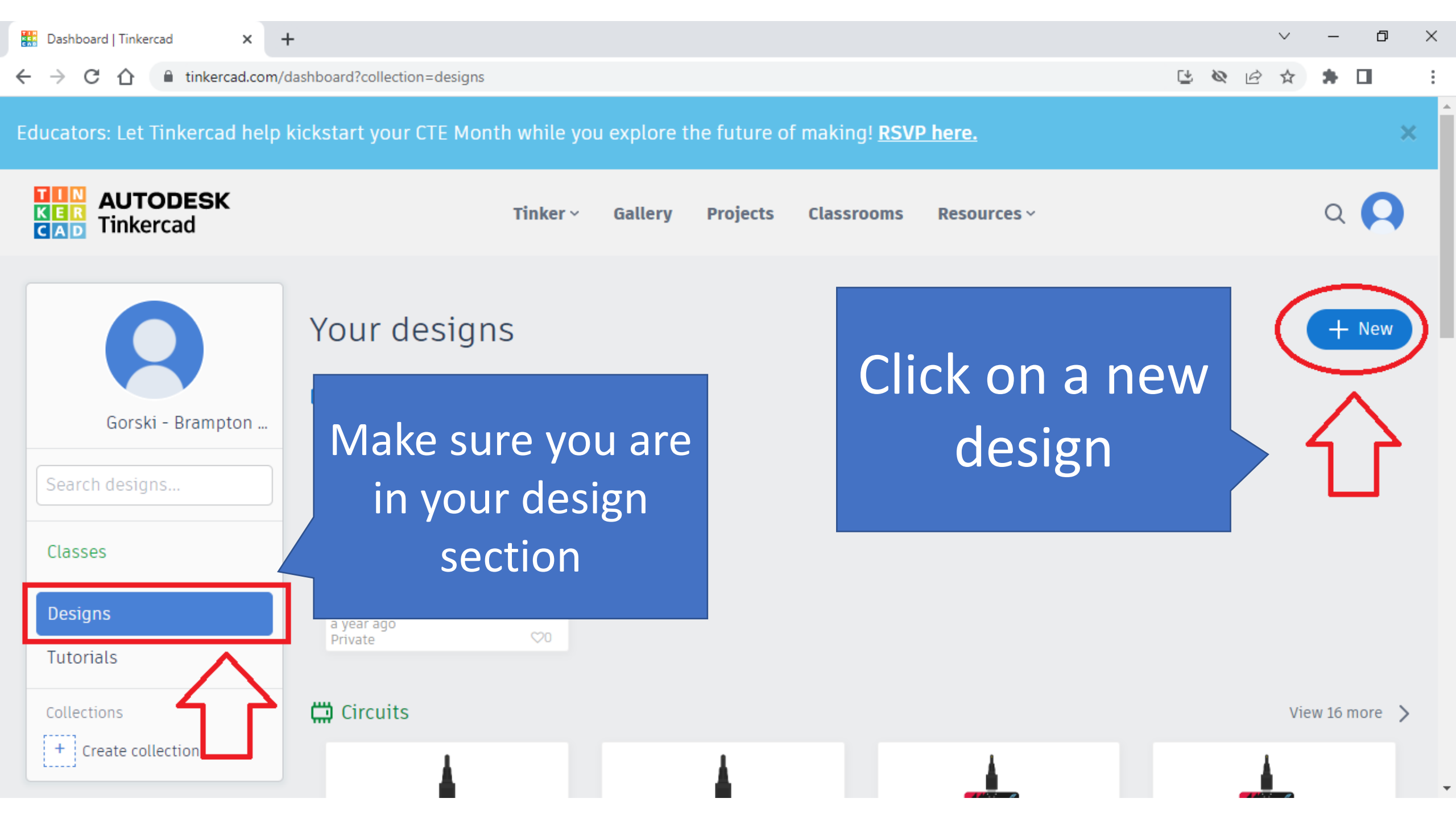
TinkerCAD

Microbit Introduction



https://www.tinkercad.com/

Use your **school google account** to log on.


Dashboard | Tinkercad
tinkercad.com/dashboard?collection=designs
Educators: Let Tinkercad help kickstart your CTE Month while you explore the future of making! RSVP here.
AUTODESK Tinkercad
Tinker
Gallery
Projects
Classrooms
Resources
Gorski - Brampton ...
Search designs...
Classes
Designs
Tutorials
Collections
Create collection
Your designs
Make sure you are in your design section
Click on a new design
New
a year ago
Private
0
Circuits
View 16 more

Dashboard | Tinkercad

tinkercad.com/dashboard?collection=designs

AUTODESK Tinkercad

Tinker | Gallery | Projects | Classrooms | Resources

Gorski - Brampton ...

Search designs...

Classes

Designs

Tutorials

Collections

Create collection

Your designs

3D Designs

Copy of grid of cubes
a year ago
Private
♡0

Choose Circuit

New

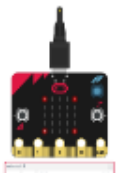
3D Design

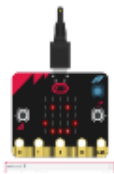
Circuit

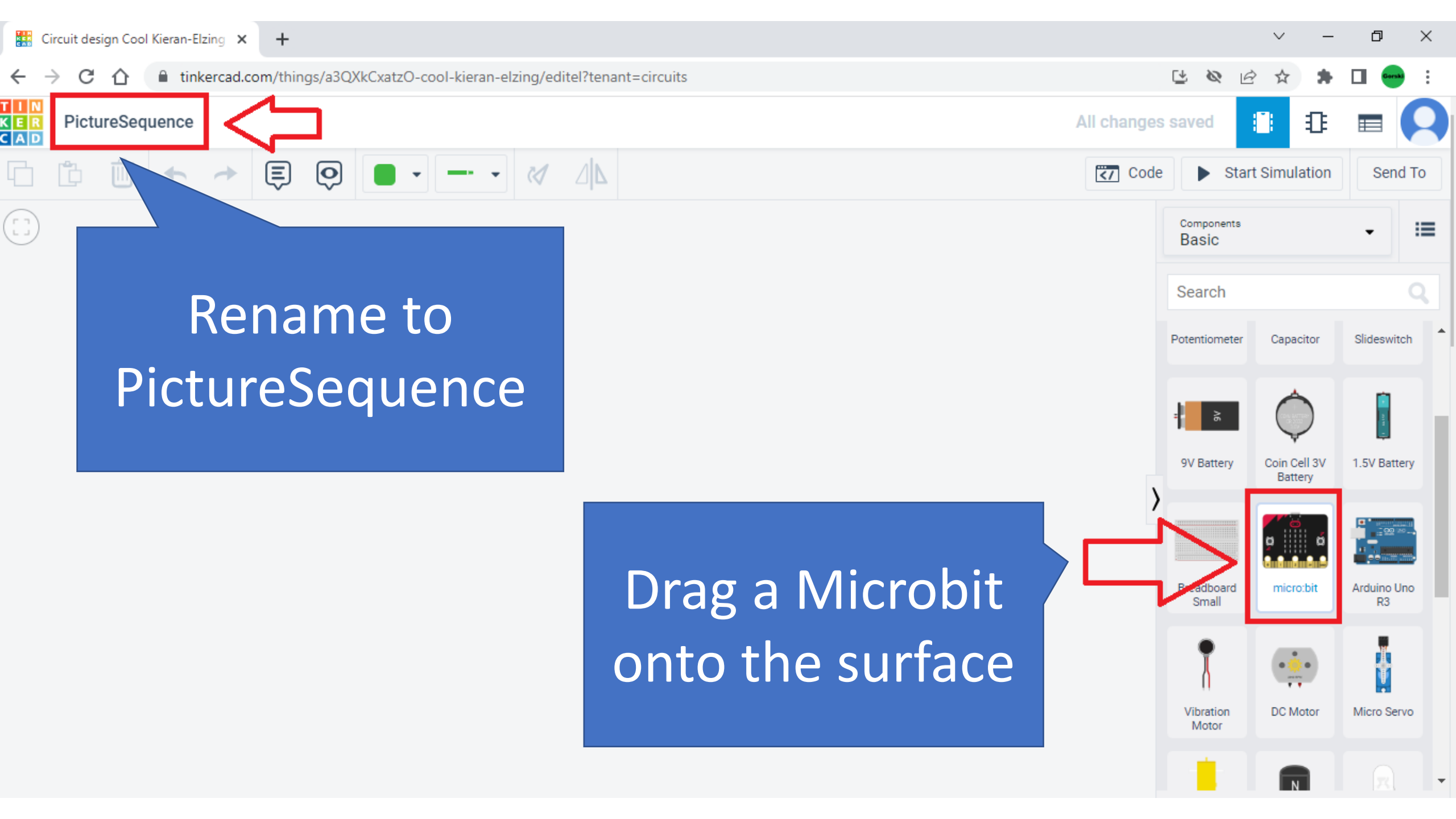
Codeblocks

Circuits

View 16 more






Circuit design Cool Kieran-Elzing
tinkercad.com/things/a3QXkCxatzO-cool-kieran-elzing/editel?tenant=circuits
PictureSequence
All changes saved
Code
Start Simulation
Send To
Components
Basic
Search
Potentiometer
Capacitor
Slideswitch
9V Battery
Coin Cell 3V Battery
1.5V Battery
micro:bit
Arduino Uno R3
Vibration Motor
DC Motor
Micro Servo
Rename to PictureSequence
Drag a Microbit onto the surface

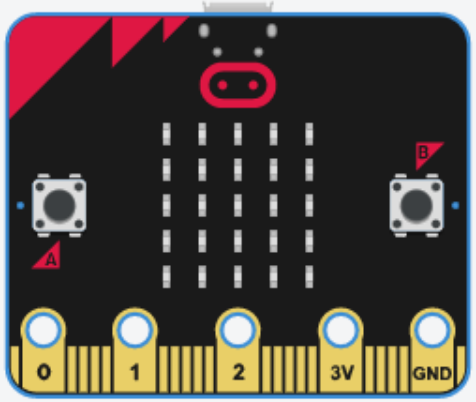
Circuit design Cool Kieran-Elzing

tinkercad.com/things/a3QXkCxatzO-cool-kieran-elzing/editel?tenant=circuits

PictureSequence

All changes saved

Code | Start Simulation | Send To



Your Microbit should be on the screen.

Move it over.

micro:bit

Name 1

Color Red

Click on the code button to move into the code section.

Components

Basic

Slideswitch

1.5V Battery

Breadboard Small

micro:bit

Arduino Uno R3

Vibration Motor

DC Motor

Micro Servo

Circuit design Cool Kieran-Elzing

tinkercad.com/things/a3QXkCxatzO-cool-kieran-elzing/editel?tenant=circuits

PictureSequence

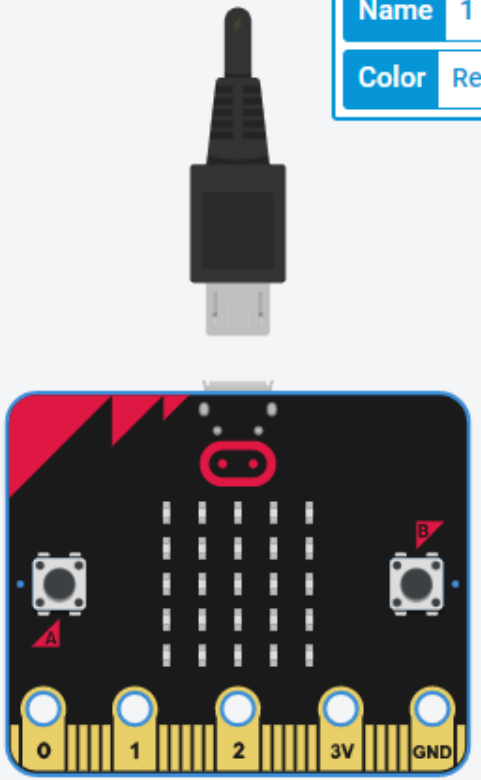
All changes saved

Code | Start Simulation | Send To

micro:bit

Name 1

Color Red



Blocks

Basic | Control | Output | Math | Input | Variables

clear screen

show icon

show leds

show number 0

show string Hello!

plot bar graph of 0 up to 0

1 (micro:bit)

on start

show icon

forever

Delete. Move to the trash

Serial Monitor

Circuit design Cool Kieran-Elzing

tinkercad.com/things/a3QXkCxatzO-cool-kieran-elzing/editel?tenant=circuits

PictureSequence

All changes saved

Code | Start Simulation | Send To

Make these.
The blocks are found in basic.

micro:bit
Name 1
Color Red

Blocks

Basic | Control
Output | Math
Input | Variables

clear screen
show icon
show leds
show number 0
show string Hello!
plot bar graph of 0 up to 0

1 (micro:bit)

on button A pressed
show icon

on button B pressed
show icon

Serial Monitor

Circuit design Cool Kieran-Elzing

tinkercad.com/things/a3QXkCxatzO-cool-kieran-elzing/editel?tenant=circuits

PictureSequence

All changes saved

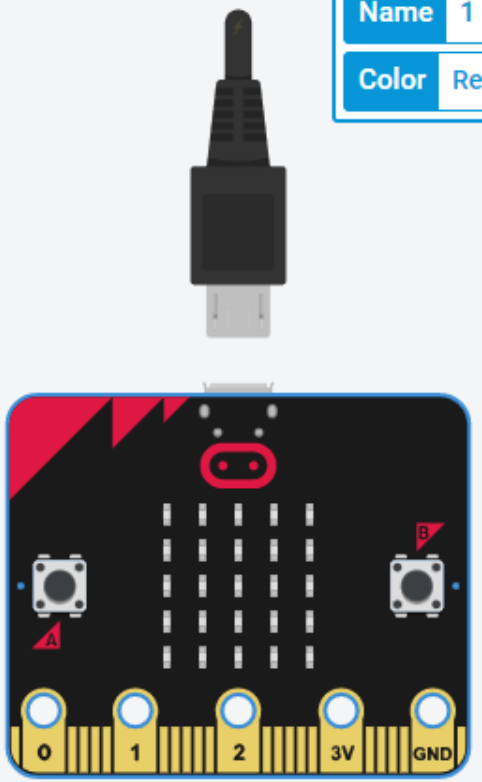
Code | Start Simulation | Send To

Choose start simulation to run your program

micro:bit

Name 1

Color Red



Blocks

Basic | Control | Output | Math | Input | Variables

clear screen

show icon

show leds

show number 0

show string Hello!

plot bar graph of 0 up to 0

on button A pressed
show icon

on button B pressed
show icon

Serial Monitor

Circuit design Cool Kieran-Elzing

tinkercad.com/things/a3QXkCxatzO-cool-kieran-elzing/editel?tenant=circuits

PictureSequence

All changes saved

Simulator time: 00:00:03

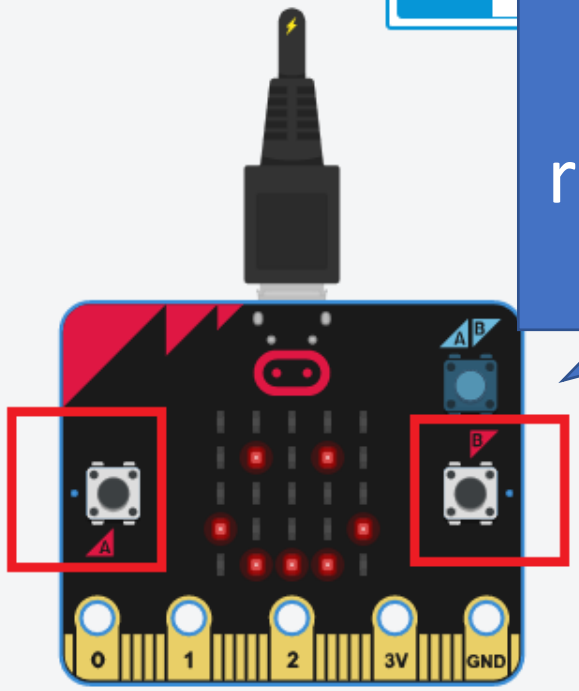
Code

Stop Simulation

Send To

1 (micro:bit)

Click the A and B buttons to run your code.



micro:bit

Name

Color

Control

Math

Variables

show leds

show number 0

show string Hello!

plot bar graph of 0 up to 0

on button A pressed

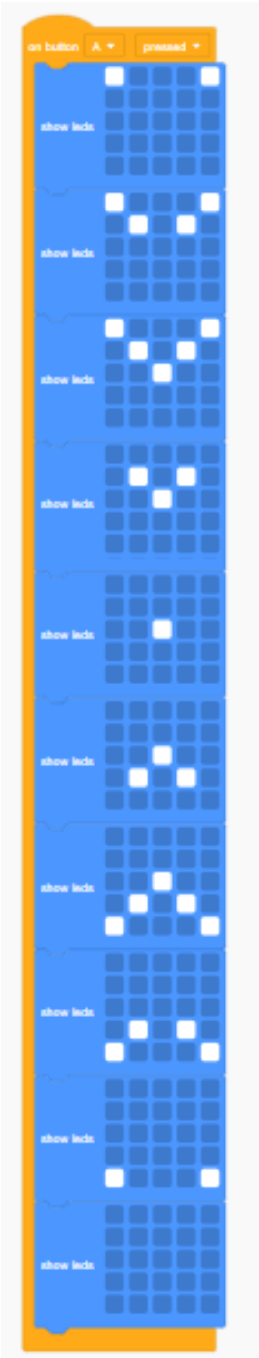
show icon

on button B pressed

show icon

micro:bit 1

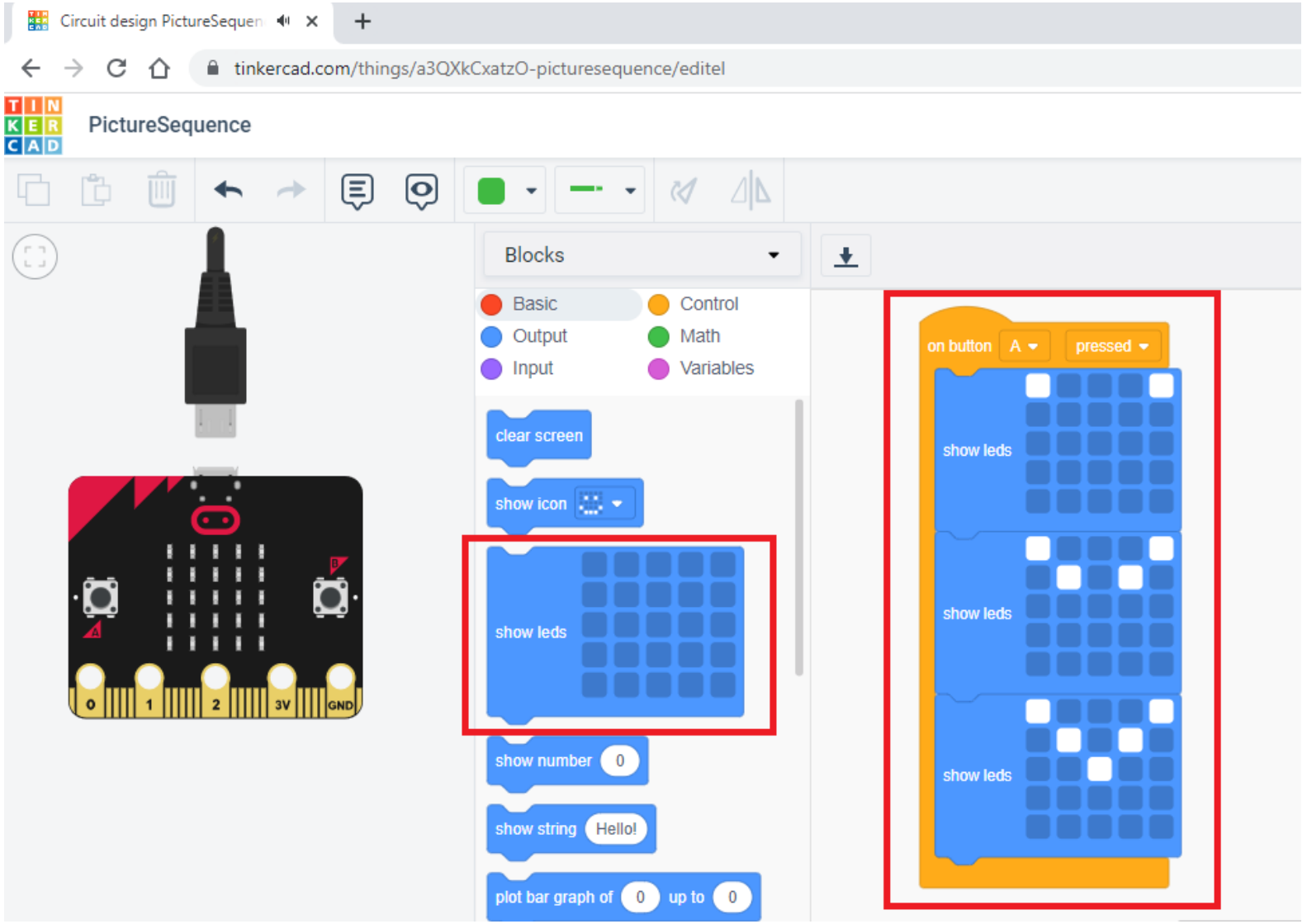
Serial Monitor



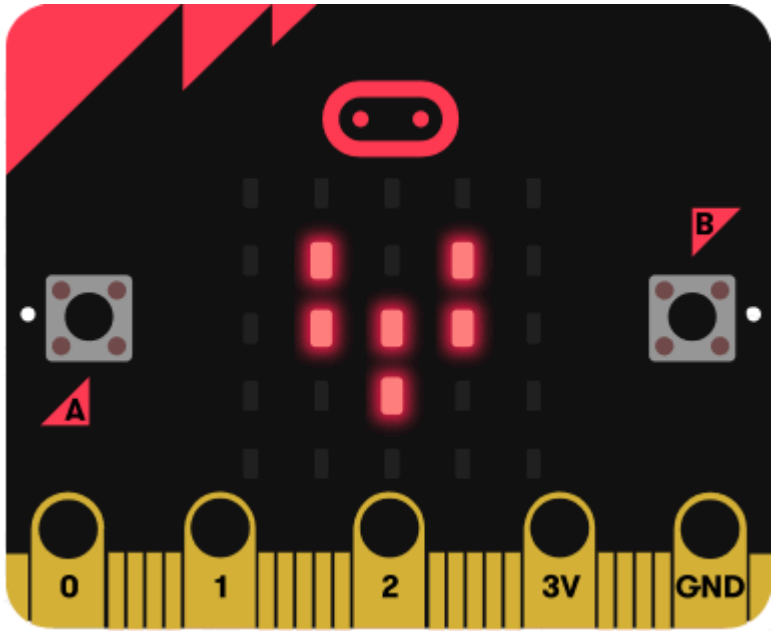
Picture Sequence Assignment

When button A is pressed, an animation of at least 10 pictures will be displayed.

Show your teacher when complete.

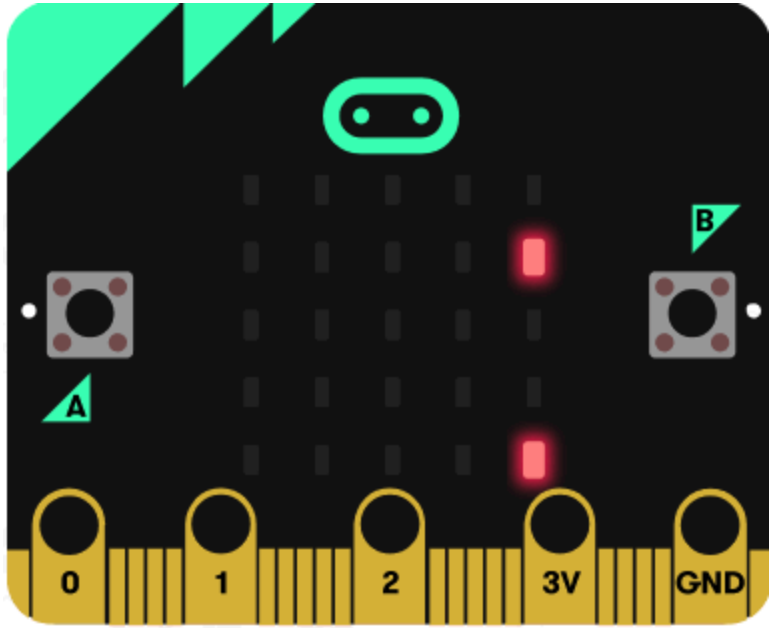


Beating Heart Assignment



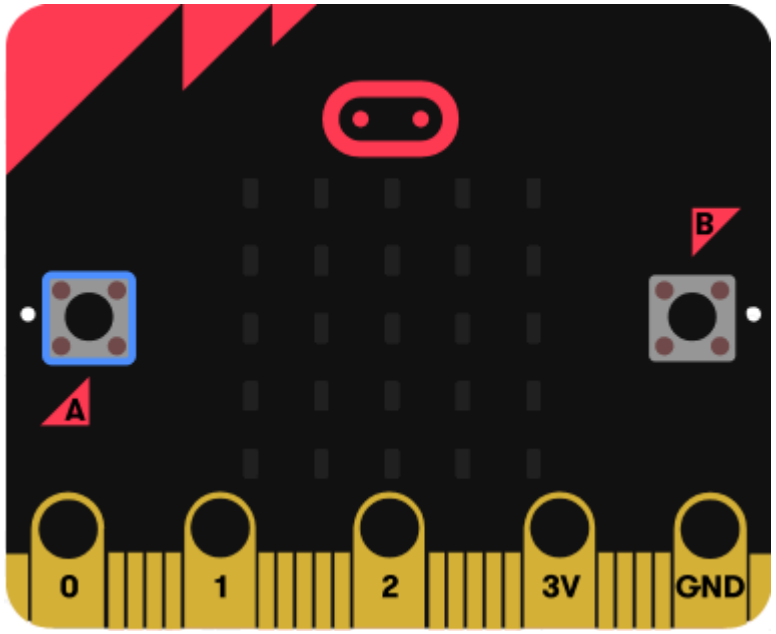
- Make in TinkerCAD.
- Show your teacher when complete.

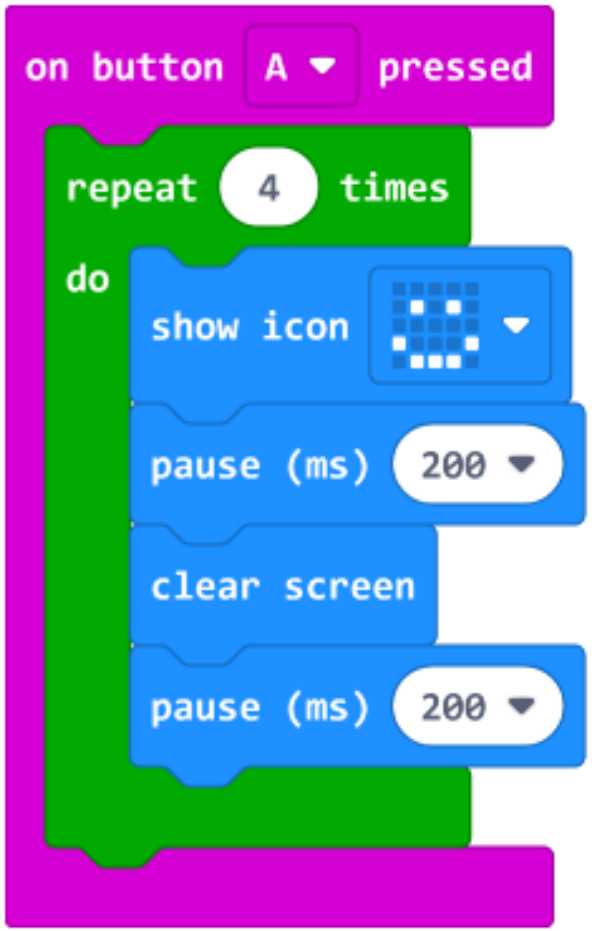
Name Badge Assignment

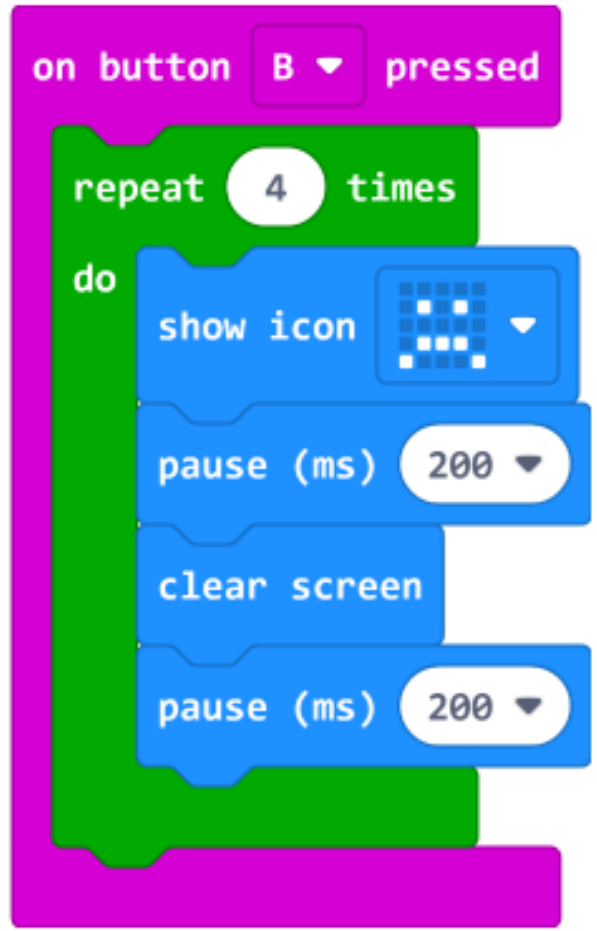


- Make in TinkerCAD.
- Show your teacher when complete.

Flashing Emotions Assignment







- Make in TinkerCAD.
- Show your teacher when complete.