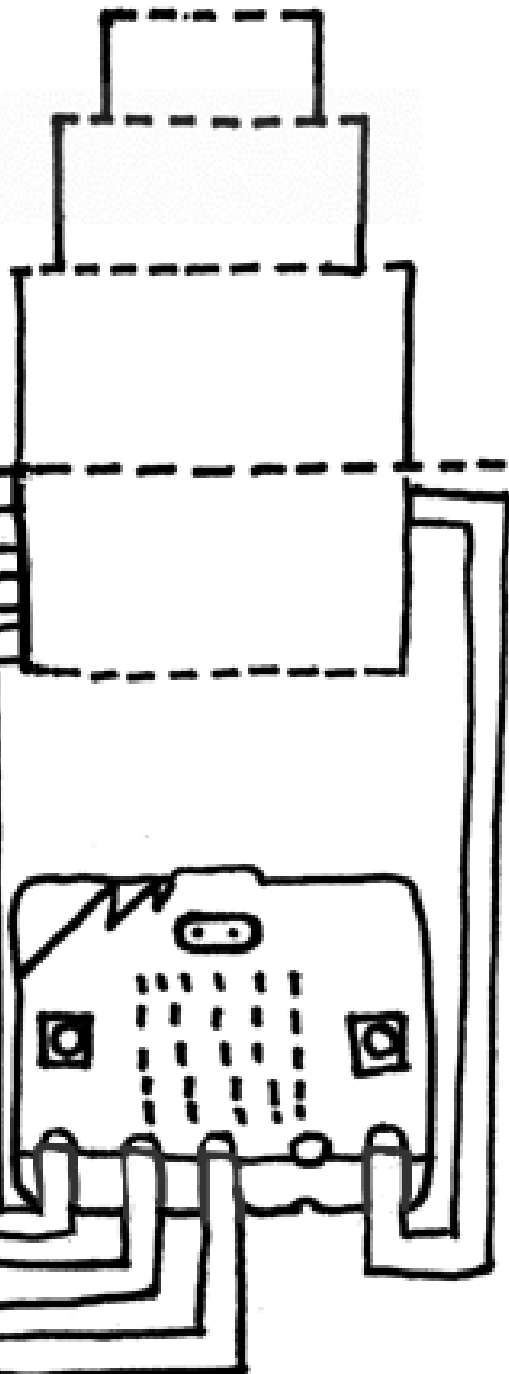# Pop-Up Blow-Out Musical Candles Card with Chibitronics LED Stickers and micro:bit

1. Make pop-up front layer – fold in half, trace cake onto wrong side, cut solid and fold dashed, push open towards right side

2. Cut out and tape on candles and icing.

3. Cut out hole in backing. Add circuit with conductive tape and LED stickers

4. Add circuit to front layer with conductive tape – leaving ends hanging off.

5. Fold front layer down, position over backing. Press ends of tape to connect to backing. Reinforce with more tape or patches. Attach front to backing with double-sided tape. Use thin foam tape on upright part to make a space where light from LED stickers can diffuse.

6. Attach micro:bit to front with foam cubes. Connect to circuit with extra conductive tape.

7. Program micro:bit in MakeCode.

8. Plug in battery holder, pull wire through to back side of card. Attach battery holder to back side with double-sided tape to hold up card.
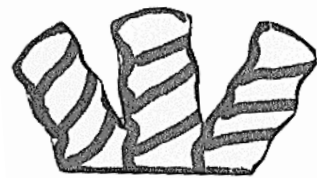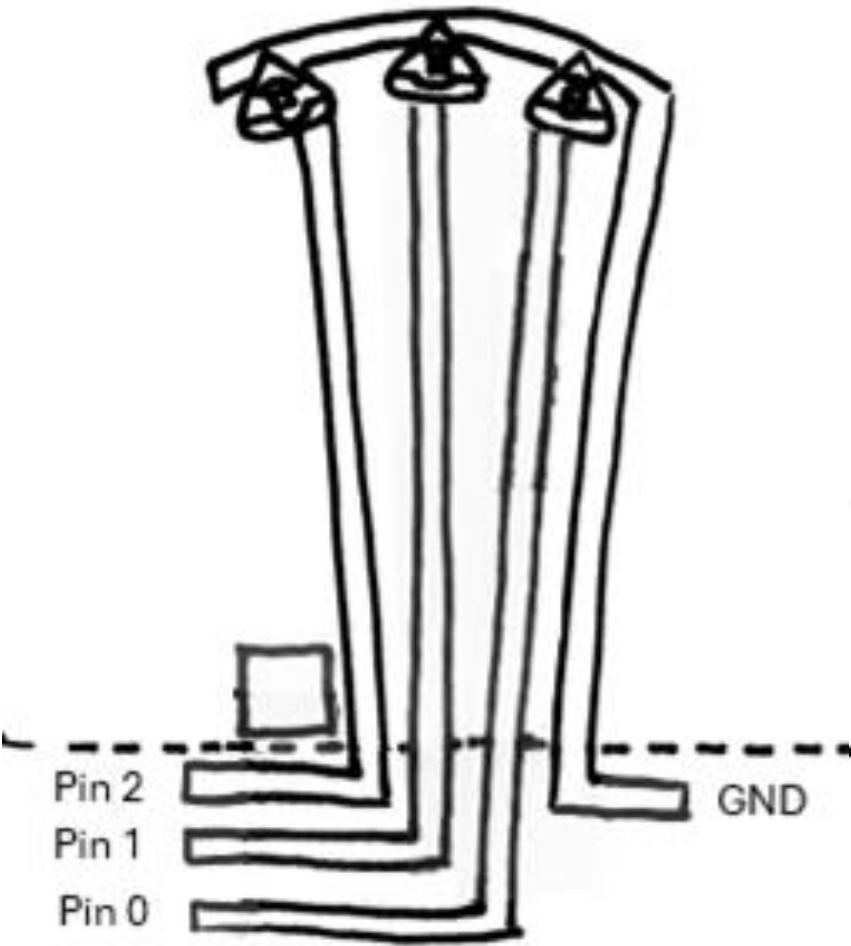
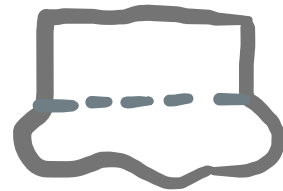**MakeCode program:**
https://makecode.microbit.org/_MHMMu4R1zPo1

Dashed lines [_ _ _] = fold

Pin 2
Pin 1
Pin 0
GND

Candles

Icing