



# Consumer Product Project

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Plan, build, solve



# In groups of three...

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Develop a consumer product that uses the micro:bit to perform some task, and market that product.

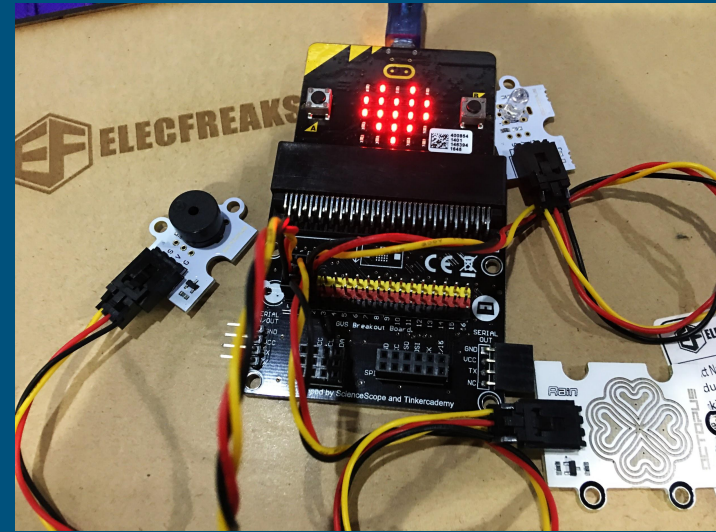
Three components:

- 3D Design
- Micro:bit coding & construction
- Marketing

# 3D Design

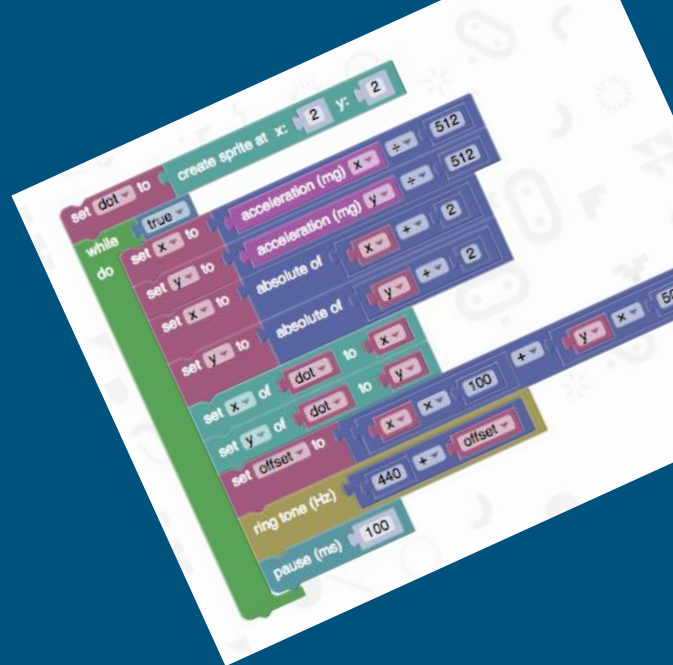
Evaluated on...

- Able to hold the micro:bit and components
  - Micro:bit
  - Wires
  - Battery Pack (must be accessible)
  - Anything you add to the pins (LEDs, Speakers, motors, etc)
  
- Must be visually appealing



# Coding

- Code will be evaluated on...
  - Accomplishing the task as easily as possible for the user
  - Inventive problem solving
  - Elegancy of coding:
    - Concise
    - Non-repetitive
    - No “dead code”

A screenshot of the Mu Python IDE interface. The window title is 'Mu'. The toolbar contains icons for New, Load, Save, Flash, Repl, Zoom-in, Zoom-out, Theme, and Quit. The main editor area shows a Python script for a dice simulation.

```
1 # Basic Dice script
2 # Matt Hawkins 2016
3 from microbit import *
4 import random
5
6 # Clear LEDs
```

# Marketing

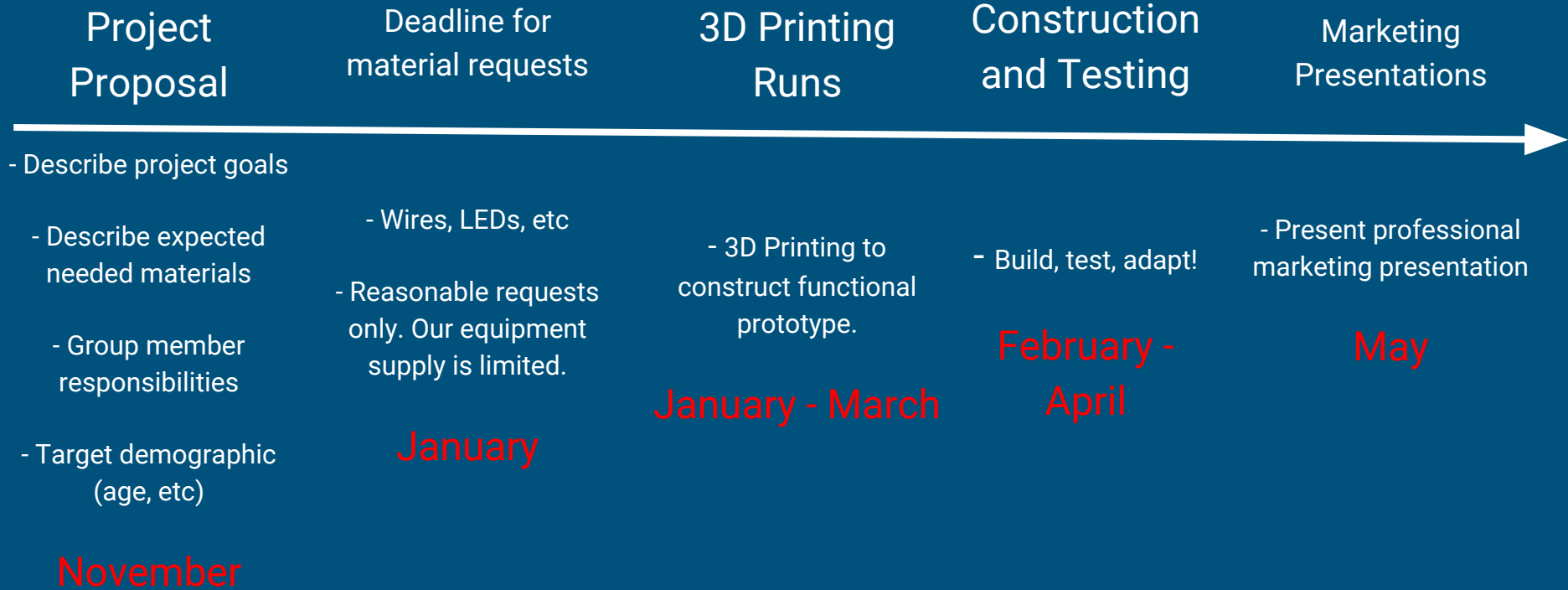
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Put together a marketing presentation or video commercial for your product

Evaluated on:

- Professionally completed depending on audience
  - Children, students, adults, business owners, etc
- Accurately shows all features and how to operate
- Accurately explains the need and how your device fills that need.

# Time-line



# Group Registration

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Go to the following link to register your group. Only register once for the group.

**[bit.ly/2g0wrjX](https://bit.ly/2g0wrjX)**