## **CPX Projects - create your own project**

What does tinkering and making look like, and why exploring and playing leads to learning and having fun: <https://vimeo.com/108510038>

### **Project 1 - Individual**

#### Discussion: What parts of the CPX interested you the most?

#### What features would you like to use?

#### Get inspired by one of these projects

#### <https://makecode.adafruit.com/courses/maker/projects>

#### Bike glove: <https://learn.adafruit.com/circuit-playground-bike-glove>

* + Learning takes place while exploring on your own
  + Learning happens from mistakes - try it in a different way, or read the error message, try a new version, iterate on designs and code

#### Share ideas for you project with a small group

#### Design Process:

Brainstorm -

which inputs/outputs do you want to use?

What is the purpose of the device?

Design / plan -materials and tools?

Program / make

Test / iterate

### **Project 2 -Working with others in the room**

#### Explore the network blocks -infrared send and infrared receive blocks

#### Activity: Guess other people’s numbers:

#### Everyone gets a unique (secret) number between 1 - # of people in group.

#### Write code that will send your secret number to another person.

#### In the same program, write code to receive someone else’s number -and figure out which number everyone has.

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